

```

DDDDDDDDDDDDDDDD    UUU    UUU    MMM    MMM    PPPPPPPPPPPPP
DDDDDDDDDDDDDDDD    UUU    UUU    MMM    MMM    PPPPPPPPPPPPP
DDDDDDDDDDDDDDDD    UUU    UUU    MMM    MMM    PPPPPPPPPPPPP
DDD          DDD    UUU    UUU    MMMMMM    MMMMMM    PPP          PPP
DDD          DDD    UUU    UUU    MMMMMM    MMMMMM    PPP          PPP
DDD          DDD    UUU    UUU    MMMMMM    MMMMMM    PPP          PPP
DDD          DDD    UUU    UUU    MMM    MMM    MMM    PPP          PPP
DDD          DDD    UUU    UUU    MMM    MMM    MMM    PPP          PPP
DDD          DDD    UUU    UUU    MMM    MMM    MMM    PPP          PPP
DDD          DDD    UUU    UUU    MMM    MMM    MMM    PPP          PPP
DDD          DDD    UUU    UUU    MMM    MMM    MMM    PPP          PPP
DDD          DDD    UUU    UUU    MMM    MMM    MMM    PPP          PPP
DDD          DDD    UUU    UUU    MMM    MMM    MMM    PPP          PPP
DDD          DDD    UUU    UUU    MMM    MMM    MMM    PPP          PPP
DDD          DDD    UUU    UUU    MMM    MMM    MMM    PPP          PPP
DDD          DDD    UUU    UUU    MMM    MMM    MMM    PPP          PPP
DDDDDDDDDDDDDDDD    UUUUUUUUUUUUUUUUU    MMM    MMM    PPP
DDDDDDDDDDDDDDDD    UUUUUUUUUUUUUUUUU    MMM    MMM    PPP
DDDDDDDDDDDDDDDD    UUUUUUUUUUUUUUUUU    MMM    MMM    PPP

```

DDDDDDDD	UU	UU	MM	MM	PPPPPPPP	
DDDDDDDD	UU	UU	MM	MM	PPPPPPPP	
DD	DD	UU	MMM	MMM	PP	PP
DD	DD	UU	MMM	MMM	PP	PP
DD	DD	UU	MM	MM	PP	PP
DD	DD	UU	MM	MM	PP	PP
DD	DD	UU	MM	MM	PPPPPPPP	
DD	DD	UU	MM	MM	PPPPPPPP	
DD	DD	UU	MM	MM	PP	
DD	DD	UU	MM	MM	PP	
DD	DD	UU	MM	MM	PP	
DD	DD	UU	MM	MM	PP	
DDDDDDDD	UUUUUUUUUU	MM	MM	PP		
DDDDDDDD	UUUUUUUUUU	MM	MM	PP		

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LL	IIIIII	SSSSSSSS	
LL	IIIIII	SSSSSSSS	
LL	II	SS	
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LL	II	SSSSSS	
LL	II	SSSSSS	
LL	II		SS
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LLLLLLLLLL	IIIIII	SSSSSSSS	
LLLLLLLLLL	IIIIII	SSSSSSSS	



```
1 0001 0 MODULE DUMPSMAIN ( ! File dump program
2 0002 0 IDENT='V04-000',
3 0003 0 MAIN=dump$start,
4 0004 0 ADDRESSING_MODE(EXTERNAL=GENERAL,
5 0005 0 NONEXTERNAL=LONG_RELATIVE)
6 0006 0 ) =
7 0007 1 BEGIN
8 0008 1
9 0009 1
10 0010 1 *****
11 0011 1 *
12 0012 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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29 0029 1 *
30 0030 1 *
31 0031 1 *****
32 0032 1
33 0033 1
34 0034 1 ++
35 0035 1
36 0036 1 FACILITY: File dump utility
37 0037 1
38 0038 1 ABSTRACT:
39 0039 1 This module contains the command processing and driver routines.
40 0040 1
41 0041 1 ENVIRONMENT:
42 0042 1 VAX native, user mode.
43 0043 1
44 0044 1 AUTHOR: Benn Schreiber, Stephen Zalewski CREATION DATE: 22-Jun-1981
45 0045 1
46 0046 1 MODIFIED BY:
47 0047 1
48 0048 1 V03-013 SHZ0002 Stephen H. Zalewski 12-Apr-1984
49 0049 1 Move all conflicting qualifier checking to DUMP.CLD.
50 0050 1
51 0051 1 V03-012 BLS0258 Benn Schreiber 5-Jan-1984
52 0052 1 Clear fab$l_xab after opening the file.
53 0053 1
54 0054 1 V03-011 SHZ0001 Stephen H. Zalewski 28-Jun-1983
55 0055 1 Have DUMP open files shared.
56 0056 1
57 0057 1 V03-010 MLJ0095 Martin L. Jack, 17-Aug-1982 18:26
```

:	58	0058	1	:	Remove references to CLISEND_PARSE.
:	59	0059	1	:	
:	60	0060	1	:	V03-009 LMP0038 L. Mark Pilant, 30-Jun-1982 13:55
:	61	0061	1	:	Correct a problem that generated the BADSTART error message
:	62	0062	1	:	if the EOF block on a file was zero.
:	63	0063	1	:	
:	64	0064	1	:	V03-008 LMP0034 L. Mark Pilant, 28-Jun-1982 9:36
:	65	0065	1	:	Fix a bug introduced by LMP0030 that resulted in an access
:	66	0066	1	:	violation when doing wildcard dumps.
:	67	0067	1	:	
:	68	0068	1	:	V03-007 LMP0030 L. Mark Pilant, 15-Jun-1982 10:35
:	69	0069	1	:	Allow dumping of logical blocks on a Files-11 mounted disk.
:	70	0070	1	:	
:	71	0071	1	:	V03-006 MLJ0081 Martin L. Jack, 24-Feb-1982 17:35
:	72	0072	1	:	Lengthen DUMP\$GQ_TIME to avoid overwriting EXIT_STATUS.
:	73	0073	1	:	
:	74	0074	1	:	V03-005 MLJ0059 Martin L. Jack, 6-Nov-1981 14:13
:	75	0075	1	:	Properly handle EFBK of 0.
:	76	0076	1	:	
:	77	0077	1	:	V03-004 MLJ0056 Martin L. Jack, 18-Oct-1981 23:31
:	78	0078	1	:	Special case reading from terminals to allow ^Z to function.
:	79	0079	1	:	
:	80	0080	1	:	V03-003 MLJ0046 Martin L. Jack, 21-Sep-1981 18:27
:	81	0081	1	:	Allow for device name change between \$PARSE and \$OPEN.
:	82	0082	1	:	
:	83	0083	1	:	V03-002 MLJ0045 Martin L. Jack, 10-Sep-1981 15:27
:	84	0084	1	:	Set SQO bit where appropriate. Allow record mode dump of
:	85	0085	1	:	network device. Allow DUMP/HEADER on tape.
:	86	0086	1	:	
:	87	0087	1	:	V03-001 MLJ0033 Martin L. Jack, 23-Aug-1981 9:48
:	88	0088	1	:	Extensive rewriting to finish implementation.
:	89	0089	1	:	
:	90	0090	1	:	--



```

: 92      0091 1 LIBRARY 'SYSS$LIBRARY:STARLET';
: 93      0092 1 LIBRARY 'SYSS$LIBRARY:TPAMAC';
: 94      0093 1 REQUIRE 'SRC$:DUMPRE';
: 95      0209 1
: 96      0210 1
: 97      0211 1 FORWARD ROUTINE
: 98      0212 1     dump$handler,      : Top-level condition handler
: 99      0213 1     dump$start,        : Main routine
100      0214 1     dump$tparse,        : Call TPARSE
101      0215 1     dump$store_num,     : Store numeric qualifier value
102      0216 1     dump$open_input,    : Open input file
103      0217 1     dump$open_output,   : Open output file
104      0218 1     dump$read,          : Read from input file
105      0219 1     dump$write:         NOVALUE, : Write to output file
106      0220 1     dump$close_input:    NOVALUE, : Close input file
107      0221 1     dump$close_output:  NOVALUE, : Close output file
108      0222 1     dump$list_width:    NOVALUE, : Get listing device width
109      0223 1     dump$file_error:    NOVALUE, : Signal file-related error
110      0224 1
111      0225 1
112      0226 1 EXTERNAL ROUTINE
113      0227 1     cli$get_value,      : Get qualifier value
114      0228 1     cli$present,       : Test if qualifier present
115      0229 1     dump$blank_line,    : Write blank line
116      0230 1     dump$dump_file,     : Dump the file
117      0231 1     dump$output_getmsg, : Output a message
118      0232 1     lib$free_vm,        : Free virtual memory
119      0233 1     lib$get_vm,         : Allocate virtual memory
120      0234 1     lib$find_file,      : Search for wild card files
121      0235 1     lib$lp_lines,       : Number of lines on printer
122      0236 1     lib$tparse,        : Table-driven parser
123      0237 1     str$copy_dx;        : Copy a string
124      0238 1
125      0239 1
126      0240 1 EXTERNAL LITERAL
127      0241 1     dump$_facility,
128      0242 1     dump$_badrange,
129      0243 1     dump$_confqual,
130      0244 1     dump$_devquals,
131      0245 1     dump$_devspec,
132      0246 1     dump$_getchn,
133      0247 1     dump$_endoffile,
134      0248 1     dump$_novirmem,
135      0249 1     dump$_badstart;
136      0250 1
137      0251 1
138      0252 1 GLOBAL
139      0253 1     dump$gl_ifab : REF BBLOCK, : Pointer to input FAB
140      0254 1     dump$gl_inam : REF BBLOCK, : Pointer to input NAM block
141      0255 1     dump$gl_irab : $RAB_DECL,  : Input RAB
142      0256 1     dump$gl_orab : $RAB_DECL,  : Output RAB
143      0257 1     dump$gl_ofab : $FAB_DECL,  : Output FAB
144      0258 1     dump$gl_onam : $NAM_DECL,  : Output NAM block
145      0259 1     dump$gl_orss : BBLOCK[nam$c_maxrss], : Output resultant string
146      0260 1     dump$gl_idesc : BBLOCK[dsc$c_s_bln], : Descriptor for input RSA
147      0261 1     dump$gl_odesc : BBLOCK[dsc$c_s_bln], : Descriptor for output RSA
: 148      0262 1     dump$ab_outbuf : BBLOCK[dump$c_maxlisiz], : Output buffer
```

```
: 149      0263 1      dump$gl_outdesc : BBLOCK[dsc$c_s_bln],      ! Descriptor for output buffer
: 150      0264 1      dump$gl_channel,      ! Input channel
: 151      0265 1      dump$gl_width,      ! Width of listing
: 152      0266 1      dump$gl_lpp,      ! Lines per page
: 153      0267 1      dump$gl_buffer : BBLOCK[dsc$c_s_bln],      ! Descriptor for input buffer
: 154      0268 1      dump$gl_flags : BBLOCK[4],      ! General flags
: 155      0269 1      dump$gl_start_qual,      ! Value of START qualifier
: 156      0270 1      dump$gl_end_qual,      ! Value of END qualifier
: 157      0271 1      dump$gl_count_qual,      ! Value of COUNT qualifier
: 158      0272 1      dump$gl_number_qual,      ! Value of NUMBER qualifier
: 159      0273 1      dump$gl_number,      ! Local byte offset for NUMBER
: 160      0274 1      dump$gl_cur_block,      ! Current block number
: 161      0275 1      dump$gl_max_block,      ! Highest block to be dumped
: 162      0276 1      dump$gl_file_efblk,      ! End of file block
: 163      0277 1      dump$gl_file_hiblk,      ! Highest allocated block
: 164      0278 1      dump$gl_record,      ! Current block/record number
: 165      0279 1      dump$gl_time : VECTOR[2];      ! Time at beginning of dump
: 166      0280 1
: 167      0281 1
: 168      0282 1      OWN
: 169      0283 1      exit_status : BBLOCK[4] INITIAL(ss$_normal), ! Most severe error status
: 170      0284 1      tpa_block : BBLOCK[tpa$k_length0];      ! TPARSE block
```



```
: 172      0285 1 LITERAL
: 173      0286 1
: 174      0287 1      dump$m_tpa_start=      $fieldmask(dump$v_tpa_start),
: 175      0288 1      dump$m_tpa_count=      $fieldmask(dump$v_tpa_count),
: 176      0289 1      dump$m_tpa_end=      $fieldmask(dump$v_tpa_end);
: 177      0290 1
: 178      0291 1 ! TPARSE tables to parse /BLOCK and /RECORD qualifier values.
: 179      0292 1 !
: 180      0293 1 $INIT STATE(blkrec_states, blkrec_keys);
: 181      P 0294 1 $STATE(,
: 182      P 0295 1      ('START',,,dump$m_tpa_start,dump$gl_flags),
: 183      P 0296 1      ('END',,,dump$m_tpa_end, dump$gl_flags),
: 184      0297 1      ('COUNT',,,dump$m_tpa_count,dump$gl_flags));
: 185      P 0298 1 $STATE(,
: 186      P 0299 1      ('='),
: 187      0300 1      (':'));
: 188      P 0301 1 $STATE(parse_number,
: 189      P 0302 1      (tpa$_decimal,eos,dump$store_num),      ! Decimal number
: 190      0303 1      ('x'));      ! Base prefix
: 191      P 0304 1 $STATE(,
: 192      P 0305 1      ('x'),      ! Hex base designator
: 193      P 0306 1      ('0',octnum),      ! Octal base designator
: 194      0307 1      ('D',decnum));      ! Decimal base designator
: 195      P 0308 1 $STATE(,
: 196      0309 1      (tpa$_hex,eos,dump$store_num));      ! Introduced hex number
: 197      P 0310 1 $STATE(octnum,
: 198      0311 1      (tpa$_octal,eos,dump$store_num));      ! Introduced octal number
: 199      P 0312 1 $STATE(decnum,
: 200      0313 1      (tpa$_decimal,,dump$store_num));      ! Introduced decimal number
: 201      P 0314 1 $STATE(eos,
: 202      0315 1      (tpa$_eos,tpa$_exit));      ! End of string
: 203      0316 1
: 204      0317 1
: 205      0318 1 ! TPARSE table to parse /NUMBER qualifier.
: 206      0319 1 !
: 207      0320 1 $INIT STATE(number_states, number_keys);
: 208      P 0321 1 $STATE(,
: 209      0322 1      ((parse_number),tpa$_exit));      ! /NUMBER=
```

```
211 0323 1 ROUTINE dump$handler(sigargs, mechargs)=
212 0324 2 BEGIN
213 0325 2
214 0326 2 This routine is a condition handler established by the main
215 0327 2 routine. It saves the most severe condition for the exit status.
216 0328 2
217 0329 2 MAP
218 0330 2     sigargs : REF BBLOCK,
219 0331 2     mechargs : REF BBLOCK;
220 0332 2 BIND
221 0333 2     signame = sigargs[chf$l_sig_name] : BBLOCK; ! Name of signal
222 0334 2
223 0335 2 IF NOT .signame ! If an error signal
224 0336 2     AND ((.signame[sts$v_severity] ! and severity is worse
225 0337 2         GTRU .exit_status[sts$v_severity])
226 0338 2         OR .exit_status[sts$v_severity]) ! or no errors yet
227 0339 2 THEN ! then save it for exit
228 0340 2     exit_status = .signame;
229 0341 2
230 0342 2 RETURN ss$_resignal; ! Resignal to get message
231 0343 2 ! Of dump$handler
232 0344 2
233 0345 1 END;
```

.TITLE DUMPSMAIN  
.IDENT \V04-000\

.PSECT \_LIB\$KEY1\$,NOWRT, SHR, PIC,1

```
00000 :TPASKEYSTO
54 52 41 54 53 00000 U.2: .BLKB 0
:TPASKEYST
FF 00005 U.4: .ASCII \START\
00006 :TPASKEYSTO
44 4E 45 00006 U.8: .BLKB 0
:TPASKEYST
FF 00009 U.10: .ASCII \END\
0000A :TPASKEYSTO
54 4E 55 4F 43 0000A U.14: .BLKB 0
:TPASKEYST
FF 0000F U.16: .ASCII \COUNT\
FF 00010 :TPASKEYFILL
U.20: .BYTE -1
```

.PSECT \_LIB\$STATES\$,NOWRT, SHR, PIC,1

```
00000 BLKREC_STATES::
6100 00000 :TPASTYPE .BLKB 0
00000000* 00002 U.5: .WORD 24832
10000000 00006 U.6: .LONG <<DUMPSGL_FLAGS-U.6>-4>
```



6101	0000A	U.7: LONG	268435456	:
		:TPASTYPE		:
00000000*	0000C	U.11: WORD	24833	:
		:TPASADDR		:
20000000	00010	U.12: LONG	<<DUMPSGL_FLAGS-U.12>-4>	:
		:TPASMASK		:
6502	00014	U.13: LONG	536870912	:
		:TPASTYPE		:
00000000*	00016	U.17: WORD	25858	:
		:TPASADDR		:
40000000	0001A	U.18: LONG	<<DUMPSGL_FLAGS-U.18>-4>	:
		:TPASMASK		:
003D	0001E	U.19: LONG	1073741824	:
		:TPASTYPE		:
043A	00020	U.21: WORD	61	:
		:TPASTYPE		:
	00022	U.22: WORD	1082	:
		PARSE_NUMBER:		:
		.BLKB	0	:
91F3	00022	:TPASTYPE		:
		U.23: WORD	-28173	:
00000000V	00024	:TPASACTION		:
		U.24: LONG	<<DUMPSSTORE_NUM-U.24>-4>	:
0000*	00028	:TPASTARGET		:
		U.26: WORD	<<U.25-U.26>-2>	:
0425	0002A	:TPASTYPE		:
		U.27: WORD	1061	:
0058	0002C	:TPASTYPE		:
		U.28: WORD	88	:
104F	0002E	:TPASTYPE		:
		U.29: WORD	4175	:
0000*	00030	:TPASTARGET		:
		U.31: WORD	<<U.30-U.31>-2>	:
1444	00032	:TPASTYPE		:
		U.32: WORD	5188	:
0000*	00034	:TPASTARGET		:
		U.34: WORD	<<U.33-U.34>-2>	:
95F5	00036	:TPASTYPE		:
		U.35: WORD	-27147	:
00000000V	00038	:TPASACTION		:
		U.36: LONG	<<DUMPSSTORE_NUM-U.36>-4>	:
0000*	0003C	:TPASTARGET		:
		U.37: WORD	<<U.25-U.37>-2>	:
	0003E	:OCTNUM		:
		U.30: BLKB	0	:
95F4	0003E	:TPASTYPE		:
		U.38: WORD	-27148	:
00000000V	00040	:TPASACTION		:
		U.39: LONG	<<DUMPSSTORE_NUM-U.39>-4>	:
0000*	00044	:TPASTARGET		:
		U.40: WORD	<<U.25-U.40>-2>	:
	00046	:DECNUM		:
		U.33: BLKB	0	:
85F3	00046	:TPASTYPE		:
		U.41: WORD	-31245	:
00000000V	00048	:TPASACTION		:
		U.42: LONG	<<DUMPSSTORE_NUM-U.42>-4>	:

```
0004C :EOS
15F7 0004C U.25: .BLKB 0
        :TPASTYPE
FFFF 0004E U.43: .WORD 5623
        :TPASTARGET
        U.44: .WORD -1
00050 NUMBER_STATES::
        :BLKB 0
1DF8 00050 :TPASTYPE
        U.46: .WORD 7672
0000* 00052 :TPASSUBEXP
        U.47: .WORD <<PARSE_NUMBER-U.47>-2>
FFFF 00054 :TPASTARGET
        U.48: .WORD -1
        :
        .PSECT _LIB$KEYOS,NOWRT, SHR, PIC,1

00000 BLKREC_KEYS::
        :BLKB 0
00000 :TPASKEY0
        U.1: .BLKB 0
0000* 00000 :TPASKEY
        U.3: .WORD <U.2-U.1>
0000* 00002 :TPASKEY
        U.9: .WORD <U.8-U.1>
0000* 00004 :TPASKEY
        U.15: .WORD <U.14-U.1>
00006 :BLKB 2
00008 NUMBER_KEYS::
        :BLKB 0
00008 :TPASKEY0
        U.45: .BLKB 0
        :
        .PSECT $OWNS$,NOEXE,2

00000001 00000 EXIT_STATUS:
        :LONG 1
00004 TPA_BLOCK:
        :BLKB 36
        :
        .PSECT $GLOBALS$,NOEXE,2

00000 DUMP$GL_IFAB::
        :BLKB 4
00004 DUMP$GL_INAM::
        :BLKB 4
00008 DUMP$GL_IRAB::
        :BLKB 68
0004C DUMP$GL_ORAB::
        :BLKB 68
00090 DUMP$GL_OFAB::
        :BLKB 80
000E0 DUMP$GL_ONAM::
        :BLKB 96
00140 DUMP$GL_ORSS::
        :BLKB 255
0023F :BLKB 1
```



00240 DUMPSGL\_IDESC::  
      .BKLB 8  
00248 DUMPSGL\_ODESC::  
      .BKLB 8  
00250 DUMPSAB\_OUTBUF::  
      .BKLB 132  
002D4 DUMPSGL\_OUTDESC::  
      .BKLB 8  
002DC DUMPSGL\_CHANNEL::  
      .BKLB 4  
002E0 DUMPSGL\_WIDTH::  
      .BKLB 4  
002E4 DUMPSGL\_LPP::  
      .BKLB 4  
002E8 DUMPSGL\_BUFFER::  
      .BKLB 8  
002F0 DUMPSGL\_FLAGS::  
      .BKLB 4  
002F4 DUMPSGL\_START\_QUAL::  
      .BKLB 4  
002F8 DUMPSGL\_END\_QUAL::  
      .BKLB 4  
002FC DUMPSGL\_COUNT\_QUAL::  
      .BKLB 4  
00300 DUMPSGL\_NUMBER\_QUAL::  
      .BKLB 4  
00304 DUMPSGL\_NUMBER::  
      .BKLB 4  
00308 DUMPSGL\_CUR\_BLOCK::  
      .BKLB 4  
0030C DUMPSGL\_MAX\_BLOCK::  
      .BKLB 4  
00310 DUMPSGL\_FILE\_EFBLK::  
      .BKLB 4  
00314 DUMPSGL\_FILE\_HIBLK::  
      .BKLB 4  
00318 DUMPSGL\_RECORD::  
      .BKLB 4  
0031C DUMPSGQ\_TIME::  
      .BKLB 8

.EXTRN CLISGET VALUE, CLISPRESENT  
.EXTRN DUMPSBLANK LINE  
.EXTRN DUMPSDUMP FILE, DUMPSOUTPUT\_GETMSG  
.EXTRN LIB\$FREE\_VM, LIB\$GET\_VM  
.EXTRN LIB\$FIND\_FILE, LIB\$LP\_LINES  
.EXTRN LIB\$TPARSE, STR\$COPY\_DX  
.EXTRN DUMPS\_FACILITY, DUMPS\_BADRANGE  
.EXTRN DUMPS\_CONFQUAL, DUMPS\_DEVQUALS  
.EXTRN DUMPS\_DEVSPEC, DUMPS\_GETCHN  
.EXTRN DUMPS\_ENDOFFILE  
.EXTRN DUMPS\_NOVIRMEM, DUMPS\_BADSTART

.PSECT \$CODE\$,NOWRT,2

0004 00000 DUMPSHANDLER:  
      .WORD Save R2

DUMPSMAIN  
V04-000

L 10  
16-Sep-1984 01:26:41  
14-Sep-1984 12:21:35

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[DUMP.SRC]DUMP.B32;1

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(4)

51	50	04	52 00000000'	EF	9E	00002	MOVAB	EXIT_STATUS, R2	:	0333
51	62		AC	04	C1	00009	ADDL3	#4, SIGARGS, R0	:	0336
	60		12	60	E8	0000E	BLBS	(R0), 2\$	:	0338
			03	00	EF	00011	EXTZV	#0, #3, EXIT_STATUS, R1	:	
			03	00	ED	00016	CMPZV	#0, #3, (R0), R1	:	
				03	1A	0001B	BGTRU	1\$	:	
			03	62	E9	0001D	BLBC	EXIT_STATUS, 2\$	:	0339
			62	60	D0	00020	MOVL	(R0), EXIT_STATUS	:	0341
			50	0918	8F	3C 00023	MOVZWL	#2328, R0	:	0344
					04	00028	RET		:	0345

; Routine Size: 41 bytes, Routine Base: \$CODE\$ + 0000



```
235 0346 1 ROUTINE dump$start=
236 0347 2 BEGIN
237 0348
238 0349 2 This is the main program. It gathers all the command inputs, and then
239 0350 2 dumps the requested files.
240 0351
241 0352 2 LOCAL
242 0353 2 find_context : REF BBLOCK,           ! Context for lib$find file
243 0354 2 find_result : BBLOCK[dsc$c_s_bln], ! Result of lib$find file
244 0355 2 find_related : BBLOCK[dsc$c_s_bln],  ! Related file for find_file
245 0356 2 find_default : BBLOCK[dsc$c_s_bln],  ! Default file
246 0357 2 value_desc : BBLOCK[dsc$c_s_bln],   ! Qualifier value descriptor
247 0358 2 status,                               ! Status variable
248 0359 2 output_desc : BBLOCK[dsc$c_s_bln],   ! Output file specification
249 0360 2 input_desc : BBLOCK[dsc$c_s_bln],   ! Input file specification
250 0361 2 input_devchar : BLOCK[16,BYTE];     ! $GETDVI arg block
251 0362 2 BUILTIN
252 0363 2 fp;
253 0364
254 0365
255 0366 2 .fp = dump$handler;                  ! Enable the condition handler
256 0367
257 0368
258 0369 2 CH$FILL(0, dsc$c_s_bln, input_desc);
259 0370 2 input_desc[dsc$b_class] = dsc$k_class_d; ! Make descriptors dynamic
260 0371 2 CH$MOVE(dsc$c_s_bln, input_desc, output_desc);
261 0372 2 CH$MOVE(dsc$c_s_bln, input_desc, find_result);
262 0373 2 CH$MOVE(dsc$c_s_bln, input_desc, find_related);
263 0374 2 CH$MOVE(dsc$c_s_bln, input_desc, find_default);
264 0375 2 CH$MOVE(dsc$c_s_bln, input_desc, value_desc);
265 0376
266 0377
267 0378 2 ! Get parameters and qualifiers.
268 0379
269 0380 2 cli$get_value($descriptor('INPUT'), input_desc); ! Get input file spec
270 0381 2 cli$get_value($descriptor('OUTPUT'), output_desc); ! Get output file spec
271 0382 2 dump$gl_flags[dump$v_allocated] = cli$present($descriptor('ALLOCATED'));
272 0383 2 dump$gl_flags[dump$v_blocks] = cli$present($descriptor('BLOCKS'));
273 0384 2 dump$gl_flags[dump$v_byte] = cli$present($descriptor('BYTE'));
274 0385 2 dump$gl_flags[dump$v_decimal] = cli$present($descriptor('DECIMAL'));
275 0386 2 dump$gl_flags[dump$v_file_header] = cli$present($descriptor('FILE_HEADER'));
276 0387 2 dump$gl_flags[dump$v_formatted] = cli$present($descriptor('FORMATTED'));
277 0388 2 dump$gl_flags[dump$v_header] = cli$present($descriptor('HEADER'));
278 0389 2 dump$gl_flags[dump$v_hex] = cli$present($descriptor('HEXADECIMAL'));
279 0390 2 dump$gl_flags[dump$v_longword] = cli$present($descriptor('LONGWORD'));
280 0391 2 dump$gl_flags[dump$v_number] = cli$present($descriptor('NUMBER'));
281 0392 2 dump$gl_flags[dump$v_octal] = cli$present($descriptor('OCTAL'));
282 0393 2 dump$gl_flags[dump$v_output] = cli$present($descriptor('OUTPUT'));
283 0394 2 dump$gl_flags[dump$v_printer] = cli$present($descriptor('PRINTER'));
284 0395 2 dump$gl_flags[dump$v_records] = cli$present($descriptor('RECORDS'));
285 0396 2 dump$gl_flags[dump$v_word] = cli$present($descriptor('WORD'));
286 0397
287 0398
288 0399
289 0400 2 ! If /NUMBER qualifier is present, get the value.
290 0401
291 0402 2 IF .dump$gl_flags[dump$v_number] ! /NUMBER present
```



```
292 0403 2 THEN
293 0404 2 BEGIN
294 0405 2 IF cli$get_value($descriptor('NUMBER'), value_desc)
295 0406 2 THEN
296 0407 2 BEGIN
297 0408 2 dump$gl_flags[dump$v_tpa_number] = true; ! Note parsing /NUMBER
298 0409 2 IF NOT dump$tparse(value_desc, number_states, number_keys)
299 0410 2 THEN
300 0411 2 SIGNAL_STOP(
301 0412 2 dump$facility^16 + shr$syntax + sts$k_severe,
302 0413 2 1, value_desc);
303 0414 2 END;
304 0415 2 END;
305 0416 2
306 0417 2 ! If /BLOCK qualifier is present, get the value(s).
307 0418 2
308 0419 2 ! If /BLOCKS present
309 0420 2 IF .dump$gl_flags[dump$v_blocks]
310 0421 2 THEN
311 0422 2 BEGIN
312 0423 2 WHILE cli$get_value($descriptor('BLOCKS'), value_desc) DO
313 0424 2 BEGIN
314 0425 2 IF NOT dump$tparse(value_desc, blkrec_states, blkrec_keys)
315 0426 2 THEN
316 0427 2 SIGNAL_STOP(
317 0428 2 dump$facility^16 + shr$syntax + sts$k_severe,
318 0429 2 1, value_desc);
319 0430 2 END;
320 0431 2 END;
321 0432 2
322 0433 2 ! If /RECORD qualifier is present, get the value(s).
323 0434 2
324 0435 2 ! If /RECORDS present
325 0436 2 IF .dump$gl_flags[dump$v_records]
326 0437 2 THEN
327 0438 2 BEGIN
328 0439 2 WHILE cli$get_value($descriptor('RECORDS'), value_desc) DO
329 0440 2 BEGIN
330 0441 2 IF NOT dump$tparse(value_desc, blkrec_states, blkrec_keys)
331 0442 2 THEN
332 0443 2 SIGNAL_STOP(
333 0444 2 dump$facility^16 + shr$syntax + sts$k_severe,
334 0445 2 1, value_desc);
335 0446 2 END;
336 0447 2 END;
337 0448 2
338 0449 2 ! Check range of START and END if both were specified, to ensure that START
339 0450 2 is less than END.
340 0451 2
341 0452 2 ! If .dump$gl_flags[dump$v_start] AND .dump$gl_flags[dump$v_end]
342 0453 2 AND .dump$gl_start_qual GTRU .dump$gl_end_qual
343 0454 2 THEN
344 0455 2 SIGNAL_STOP(dump$_badrange);
345 0456 2
346 0457 2
347 0458 2 ! Get number of lines on output page.
348 0459 2
```



```

349 0460 2 !
350 0461 2 dump$gl_lpp = lib$lp_lines() - 6;
351 0462 2
352 0463 2
353 0464 2 ! Loop, calling LIB$FIND_FILE to get files matching the input spec.
354 0465 2
355 0466 2 find_context = 0; ! Initialize context
356 0467 2 UNTIL
357 0468 2 BEGIN
358 0469 2 status = lib$find_file(
359 0470 2 input_desc,
360 0471 2 find_result,
361 0472 2 find_context,
362 0473 2 find_default,
363 0474 2 find_related);
364 0475 2 IF .find_context NEQ 0 THEN dump$gl_inam = .find_context[fab$l_nam];
365 0476 2 IF .status EQL rms$_dnf OR .status EQL rms$_fnf
366 0477 2 THEN
367 0478 2 BEGIN
368 0479 2 IF (.dump$gl_inam[nam$l_fnb] AND ! Check for only device
369 0480 2 (nam$m_exp_dir OR
370 0481 2 nam$m_exp_name OR
371 0482 2 nam$m_exp_type OR
372 0483 2 nam$m_exp_ver OR
373 0484 2 nam$m_wildcard)) EQL 0
374 0485 2 THEN
375 0486 2 BEGIN
376 0487 2 input_devchar[dumpdvi_w_size] = 4; ! Build $GETDVI item
377 0488 2 input_devchar[dumpdvi_w_type] = dvi$_devchar; ! list for the
378 0489 2 input_devchar[dumpdvi_l_addr] = find_context[fab$l_dev]; ! device
379 0490 2 input_devchar[dumpdvi_l_len] = 0; ! characteristics
380 0491 2 input_devchar[dumpdvi_l_end] = 0; ! Terminate the list
381 0492 2 $GETDVI(EFN = dumpdvi_c_efn, ! Get characteristics
382 0493 2 DEVNAM = input_desc,
383 0494 2 ITMLST = input_devchar);
384 0495 2 $WAITFR(EFN = dumpdvi_c_efn); ! Wait until complete
385 0496 2 status = 1; ! Don't take an error
386 0497 2 BBLOCK(find_context[fab$l_dev], dev$v_for] = 1; ! Mark foreign
387 0498 2 END;
388 0499 2 END;
389 0500 2 .status EQL rms$_nmf
390 0501 2 END
391 0502 2 DO
392 0503 2 BEGIN
393 0504 2 IF NOT .status ! Report error
394 0505 2 THEN
395 0506 2 BEGIN
396 0507 2 SIGNAL(
397 0508 2 dump$_facility^16 + shr$_openin + sts$k_error,
398 0509 2 1, find_result,
399 0510 2 .find_context[fab$l_sts], .find_context[fab$l_stv]);
400 0511 2 END
401 0512 2 ELSE
402 0513 2 BEGIN
403 0514 2 IF dump$open_input(.find_context, find_result)
404 0515 2 AND dump$open_output(output_desc, .find_context)
405 0516 2 THEN
```



```

: 406      0517 5      BEGIN
: 407      0518 5      dump$list_width(dump$gl_ofab);           ! Get width of listing
: 408      0519 5      $GETTIM(timadr=dump$gl_time);           ! Get current time
: 409      0520 5      dump$gl_number = .dump$gl_number_qual;   ! Set initial /NUMBER
: 410      0521 5      dump$dump_file();                       ! Dump the file
: 411      0522 5      dump$close_input(.find_context);
: 412      0523 5      dump$close_output();
: 413      0524 5      END;
: 414      0525 5      str$copy_dx(find_related, find_result);   ! Propagate related
: 415      0526 5      END;
: 416      0527 5      IF NOT .dump$gl_inam[nam$w wildcard]
: 417      0528 5      THEN RETURN .exit_status OR sts$m_inhib_msg;
: 418      0529 5      END;                                     ! Of LIB$FIND_FILE loop
: 419      0530 5
: 420      0531 5
: 421      0532 2      RETURN .exit_status OR sts$m_inhib_msg;   ! Exit with no message
: 422      0533 1      END;
```

.PSECT \$SPLIT\$,NOWRT,NOEXE,2

```

54 55 50 4E 49 00000 P.AAB: .ASCII \INPUT\
00005 .BLKB 3
00000005 00008 P.AAA: .LONG 5
00000000 0000C .ADDRESS P.AAB
54 55 50 54 55 4F 00010 P.AAD: .ASCII \OUTPUT\
00016 .BLKB 2
00000006 00018 P.AAC: .LONG 6
00000000 0001C .ADDRESS P.AAD
44 45 54 41 43 4F 4C 4C 41 00020 P.AAF: .ASCII \ALLOCATED\
00029 .BLKB 3
00000009 0002C P.AAE: .LONG 9
00000000 00030 .ADDRESS P.AAF
49 49 43 53 41 00034 P.AAH: .ASCII \ASCII\
00039 .BLKB 3
00000005 0003C P.AAG: .LONG 5
00000000 00040 .ADDRESS P.AAH
53 48 43 4F 4C 42 00044 P.AAJ: .ASCII \BLOCKS\
0004A .BLKB 2
00000006 0004C P.AAI: .LONG 6
00000000 00050 .ADDRESS P.AAJ
45 54 59 42 00054 P.AAL: .ASCII \BYTE\
00000004 00058 P.AAK: .LONG 4
00000000 0005C .ADDRESS P.AAL
4C 41 4D 49 43 45 44 00060 P.AAN: .ASCII \DECIMAL\
00067 .BLKB 1
00000007 00068 P.AAM: .LONG 7
00000000 0006C .ADDRESS P.AAN
52 45 44 41 45 48 5F 45 4C 49 46 00070 P.AAP: .ASCII \FILE_HEADER\
0007B .BLKB 1
0000000B 0007C P.AAQ: .LONG 11
00000000 00080 .ADDRESS P.AAP
44 45 54 54 41 4D 52 4F 46 00084 P.AAR: .ASCII \FORMATTED\
0008D .BLKB 3
00000009 00090 P.AAQ: .LONG 9
00000000 00094 .ADDRESS P.AAR
```



```
52 45 44 41 45 48 00098 P.AAT: .ASCII \HEADER\ ;
0009E .BLKB 2 ;
000A0 P.AAS: .LONG 6 ;
000A4 .ADDRESS P.AAT ;
4C 41 4D 49 43 45 44 41 58 45 48 000A8 P.AAV: .ASCII \HEXADECIMAL\ ;
000B3 .BLKB 1 ;
000B4 P.AAU: .LONG 11 ;
000B8 .ADDRESS P.AAV ;
44 52 4F 57 47 4E 4F 4C 000BC P.AAX: .ASCII \LONGWORD\ ;
000C4 P.AAW: .LONG 8 ;
000C8 .ADDRESS P.AAX ;
52 45 42 4D 55 4E 000CC P.AAZ: .ASCII \NUMBER\ ;
000D2 .BLKB 2 ;
000D4 P.AAY: .LONG 6 ;
000D8 .ADDRESS P.AAZ ;
4C 41 54 43 4F 000DC P.ABB: .ASCII \OCTAL\ ;
000E1 .BLKB 3 ;
000E4 P.ABA: .LONG 5 ;
000E8 .ADDRESS P.ABB ;
54 55 50 54 55 4F 000EC P.ABD: .ASCII \OUTPUT\ ;
000F2 .BLKB 2 ;
000F4 P.ABC: .LONG 6 ;
000F8 .ADDRESS P.ABD ;
52 45 54 4E 49 52 50 000FC P.ABF: .ASCII \PRINTER\ ;
00103 .BLKB 1 ;
00104 P.ABE: .LONG 7 ;
00108 .ADDRESS P.ABF ;
53 44 52 4F 43 45 52 0010C P.ABH: .ASCII \RECORDS\ ;
00113 .BLKB 1 ;
00114 P.ABG: .LONG 7 ;
00118 .ADDRESS P.ABH ;
44 52 4F 57 0011C P.ABJ: .ASCII \WORD\ ;
00120 P.ABI: .LONG 4 ;
00124 .ADDRESS P.ABJ ;
52 45 42 4D 55 4E 00128 P.ABL: .ASCII \NUMBER\ ;
0012E .BLKB 2 ;
00130 P.ABK: .LONG 6 ;
00134 .ADDRESS P.ABL ;
53 4B 43 4F 4C 42 00138 P.ABN: .ASCII \BLOCKS\ ;
0013E .BLKB 2 ;
00140 P.ABM: .LONG 6 ;
00144 .ADDRESS P.ABN ;
53 44 52 4F 43 45 52 00148 P.ABP: .ASCII \RECORDS\ ;
0014F .BLKB 1 ;
00150 P.ABO: .LONG 7 ;
00154 .ADDRESS P.ABP ;

.EXTRN SYSSGETDVI, SYSSWAITFR
.EXTRN SYSSGETTIM

.PSECT $CODE$,NOWRT,2

OFFC 0000 DUMPS$START:
5B 00000000' EF 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 ; 0346
5A 00000000G 00 9E 00009 MOVAB BLKREC KEYS, R11 ;
59 00000000G 00 9E 00010 MOVAB LIB$STOP, R10 ;
MOVAB CLISGET_VALUE, R9 ;
```

08	00	17	AE	58	00000000G	00	9E	00017	MOVAB	CLISPRESENT, R8	0366
		14	AE	57	00000000'	EF	9E	0001E	MOVAB	P.AAA, R7	0369
				56	00000000'	EF	9E	00025	MOVAB	DUMPSGL_FLAGS, R6	
				5E	BC	AE	9E	0002C	MOVAB	-68(SP), SP	
				6D	A4	AF	9E	00030	MOVAB	DUMPSHANDLER, (FP)	
				6E		00	2C	00034	MOVAB	#0, (SP), #0, #8, INPUT_DESC	
					14	AE		00039	MOVAB		
						02	90	0003B	MOVAB	#2, INPUT_DESC+3	0370
						08	28	0003F	MOVAB	#8, INPUT_DESC, OUTPUT_DESC	0371
						08	28	00045	MOVAB	#8, INPUT_DESC, FIND_RESULT	0372
						08	28	0004B	MOVAB	#8, INPUT_DESC, FIND_RELATED	0373
						08	28	00051	MOVAB	#8, INPUT_DESC, FIND_DEFAULT	0374
						08	28	00057	MOVAB	#8, INPUT_DESC, VALUE_DESC	0375
						AE	9F	0005D	PUSHAB	INPUT_DESC	0380
						57	DD	00060	PUSHL	R7	
						02	FB	00062	CALLS	#2, CLISGET_VALUE	
						AE	9F	00065	PUSHAB	OUTPUT_DESC	0381
						A7	9F	00068	PUSHAB	P.AAC	
						02	FB	0006B	CALLS	#2, CLISGET_VALUE	0382
						A7	9F	0006E	PUSHAB	P.AAE	
						01	FB	00071	CALLS	#1, CLISPRESENT	
						50	F0	00074	INSV	R0, #0, #1, DUMPSGL_FLAGS	0383
						A7	9F	00079	PUSHAB	P.AAG	
						01	FB	0007C	CALLS	#1, CLISPRESENT	0384
						A7	9F	0007F	PUSHAB	P.AAI	
						01	FB	00082	CALLS	#1, CLISPRESENT	
						50	F0	00085	INSV	R0, #1, #1, DUMPSGL_FLAGS	0385
						A7	9F	0008A	PUSHAB	P.AAK	
						01	FB	0008D	CALLS	#1, CLISPRESENT	
						50	F0	00090	INSV	R0, #2, #1, DUMPSGL_FLAGS	0386
						A7	9F	00095	PUSHAB	P.AAM	
						01	FB	00098	CALLS	#1, CLISPRESENT	
						50	F0	0009B	INSV	R0, #3, #1, DUMPSGL_FLAGS	0387
						A7	9F	000A0	PUSHAB	P.AAO	
						01	FB	000A3	CALLS	#1, CLISPRESENT	
						50	F0	000A6	INSV	R0, #4, #1, DUMPSGL_FLAGS	0388
						C7	9F	000AB	PUSHAB	P.AAQ	
						01	FB	000AF	CALLS	#1, CLISPRESENT	
						50	F0	000B2	INSV	R0, #5, #1, DUMPSGL_FLAGS	0389
						C7	9F	000B7	PUSHAB	P.AAS	
						01	FB	000BB	CALLS	#1, CLISPRESENT	
						50	F0	000BE	INSV	R0, #6, #1, DUMPSGL_FLAGS	0390
						C7	9F	000C3	PUSHAB	P.AAU	
						01	FB	000C7	CALLS	#1, CLISPRESENT	
						50	F0	000CA	INSV	R0, #7, #1, DUMPSGL_FLAGS	0391
						C7	9F	000CF	PUSHAB	P.AAW	
						01	FB	000D3	CALLS	#1, CLISPRESENT	
						50	F0	000D6	INSV	R0, #0, #1, DUMPSGL_FLAGS+1	0392
						C7	9F	000DC	PUSHAB	P.AAY	
						01	FB	000E0	CALLS	#1, CLISPRESENT	
						50	F0	000E3	INSV	R0, #1, #1, DUMPSGL_FLAGS+1	0393
						C7	9F	000E9	PUSHAB	P.ABA	
						01	FB	000ED	CALLS	#1, CLISPRESENT	
						50	F0	000F0	INSV	R0, #2, #1, DUMPSGL_FLAGS+1	0394
						C7	9F	000F6	PUSHAB	P.ABC	
						01	FB	000FA	CALLS	#1, CLISPRESENT	
						50	F0	000FD	INSV	R0, #3, #1, DUMPSGL_FLAGS+1	



01	A6	01	68	00FC	C7	9F	00103	PUSHAB	P.ABE	:	0395
			04		01	FB	00107	CALLS	#1, CLISPRESNT	:	
				010C	50	FO	0010A	INSV	R0, #4, #1, DUMPSGL_FLAGS+1	:	0396
01	A6	01	68		C7	9F	00110	PUSHAB	P.ABG	:	
			05		01	FB	00114	CALLS	#1, CLISPRESNT	:	
				0118	50	FO	00117	INSV	R0, #5, #1, DUMPSGL_FLAGS+1	:	0397
01	A6	01	68		C7	9F	0011D	PUSHAB	P.ABI	:	
			06		01	FB	00121	CALLS	#1, CLISPRESNT	:	
		36	01		50	FO	00124	INSV	R0, #6, #1, DUMPSGL_FLAGS+1	:	0402
					01	E1	0012A	BBC	#1, DUMPSGL_FLAGS+1, 1\$	:	0405
				24	AE	9F	0012F	PUSHAB	VALUE_DESC	:	
				0128	C7	9F	00132	PUSHAB	P.ABK	:	
			69		02	FB	00136	CALLS	#2, CLISGET_VALUE	:	
		03	29		50	E9	00139	BLBC	R0, 1\$	:	
				80	8F	88	0013C	BISB2	#128, DUMPSGL_FLAGS+3	:	0408
				08	AB	9F	00141	PUSHAB	NUMBER_KEYS	:	0409
				00000000'	EF	9F	00144	PUSHAB	NUMBER_STATES	:	
				2C	AE	9F	0014A	PUSHAB	VALUE_DESC	:	
			00000000V		03	FB	0014D	CALLS	#3, DUMPSTPARSE	:	
					50	E8	00154	BLBS	R0, 1\$	:	
				24	AE	9F	00157	PUSHAB	VALUE_DESC	:	0411
					01	DD	0015A	PUSHL	#1	:	
				00000000*	8F	DD	0015C	PUSHL	#<<<DUMPS FACILITY@16>+4344>+4>	:	0412
			6A		03	FB	00162	CALLS	#3, LIB\$STOP	:	
32			66		01	E1	00165	BBC	#1, DUMPSGL_FLAGS, 3\$	:	0420
				24	AE	9F	00169	PUSHAB	VALUE_DESC	:	0423
				0138	C7	9F	0016C	PUSHAB	P.ABM	:	
			69		02	FB	00170	CALLS	#2, CLISGET_VALUE	:	
			25		50	E9	00173	BLBC	R0, 3\$	:	
					5B	DD	00176	PUSHL	R11	:	0425
				00000000'	EF	9F	00178	PUSHAB	BLKREC_STATES	:	
				2C	AE	9F	0017E	PUSHAB	VALUE_DESC	:	
			00000000V		03	FB	00181	CALLS	#3, DUMPSTPARSE	:	
					50	E8	00188	BLBS	R0, 2\$	:	
				24	AE	9F	0018B	PUSHAB	VALUE_DESC	:	0427
					01	DD	0018E	PUSHL	#1	:	
				00000000*	8F	DD	00190	PUSHL	#<<<DUMPS FACILITY@16>+4344>+4>	:	0428
			6A		03	FB	00196	CALLS	#3, LIB\$STOP	:	
					CE	11	00199	BRB	2\$	:	0423
32	01	A6			05	E1	0019B	BBC	#5, DUMPSGL_FLAGS+1, 5\$	:	0436
				24	AE	9F	001A0	PUSHAB	VALUE_DESC	:	0439
				0148	C7	9F	001A3	PUSHAB	P.ABO	:	
			69		02	FB	001A7	CALLS	#2, CLISGET_VALUE	:	
			25		50	E9	001AA	BLBC	R0, 5\$	:	
					5B	DD	001AD	PUSHL	R11	:	0441
				00000000'	EF	9F	001AF	PUSHAB	BLKREC_STATES	:	
				2C	AE	9F	001B5	PUSHAB	VALUE_DESC	:	
			00000000V		03	FB	001B8	CALLS	#3, DUMPSTPARSE	:	
					50	E8	001BF	BLBS	R0, 4\$	:	0443
				24	AE	9F	001C2	PUSHAB	VALUE_DESC	:	
					01	DD	001C5	PUSHL	#1	:	
				00000000*	8F	DD	001C7	PUSHL	#<<<DUMPS FACILITY@16>+4344>+4>	:	0444
			6A		03	FB	001CD	CALLS	#3, LIB\$STOP	:	
					CE	11	001D0	BRB	4\$	:	0439
				01	A6	95	001D2	TSTB	DUMPSGL_FLAGS+1	:	0453
					14	18	001D5	BGEQ	6\$	:	
			10		02	A6	E9 001D7	BLBC	DUMPSGL_FLAGS+2, 6\$	:	

08	A6	04	A6	D1	001DB	CMPL	DUMPSGL_START_QUAL, DUMPSGL_END_QUAL	0454
			09	1B	001E0	BLEQU	6\$	
		00000000G	8F	DD	001E2	PUSHL	#DUMPS_BADRANGE	0456
	6A		01	FB	001E8	CALLS	#1, LIB\$STOP	
00000000G	00		00	FB	001EB	CALLS	#0, LIB\$LP_LINES	0461
F4	A6	FA	A0	9E	001F2	MOVAB	-6(R0), DUMPSGL_LPP	
			6E	D4	001F7	CLRL	FIND_CONTEXT	0466
		34	AE	9F	001F9	PUSHAB	FIND_RELATED	0469
		30	AE	9F	001FC	PUSHAB	FIND_DEFAULT	
		08	AE	9F	001FF	PUSHAB	FIND_CONTEXT	
		48	AE	9F	00202	PUSHAB	FIND_RESULT	
		24	AE	9F	00205	PUSHAB	INPUT_DESC	
00000000G	00		05	FB	00208	CALLS	#5, LIB\$FIND_FILE	
	53		50	DD	0020F	MOVL	R0, STATUS	
	52		6E	DD	00212	MOVL	FIND_CONTEXT, R2	0475
			06	13	00215	BEQL	8\$	
FD14	C6	28	A2	DD	00217	MOVL	40(R2), DUMPSGL_INAM	
0001C04A	8F		53	D1	0021D	CMPL	STATUS, #114762	0476
			09	13	00224	BEQL	9\$	
00018292	8F		53	D1	00226	CMPL	STATUS, #98962	
			41	12	0022D	BNEQ	10\$	
	50	FD14	C6	DD	0022F	MOVL	DUMPSGL_INAM, R0	0479
0147	8F	34	A0	B3	00234	BITW	52(R0), #327	0484
			34	12	0023A	BNEQ	10\$	
	AE	00020004	8F	DD	0023C	MOVL	#131076, INPUT_DEVCHAR	0487
08	AE	40	A2	9E	00244	MOVAB	64(R2), INPUT_DEVCHAR+4	0489
		0C	AE	7C	00249	CLRQ	INPUT_DEVCHAR+8	0490
			7E	7C	0024C	CLRQ	-(SP)	0494
			7E	7C	0024E	CLRQ	-(SP)	
		14	AE	9F	00250	PUSHAB	INPUT_DEVCHAR	
		28	AE	9F	00253	PUSHAB	INPUT_DESC	
	7E		03	7D	00256	MOVQ	#3, -(SP)	
00000000G	00		08	FB	00259	CALLS	#8, SYS\$GETDVI	
			03	DD	00260	PUSHL	#3	0495
00000000G	00		01	FB	00262	CALLS	#1, SYS\$WAITFR	
	53		01	DD	00269	MOVL	#1, STATUS	0496
	43		01	88	0026C	BISB2	#1, 67(R2)	0497
000182CA	8F		53	D1	00270	CMPL	STATUS, #99018	0500
			03	12	00277	BNEQ	11\$	
		0083	31	00279	BRW	15\$		
			53	E8	0027C	BLBS	STATUS, 12\$	0504
	18		A2	7D	0027F	MOVQ	8(R2), -(SP)	0510
	7E	08	AE	9F	00283	PUSHAB	FIND_RESULT	0507
		44	01	DD	00286	PUSHL	#1	
			8F	DD	00288	PUSHL	#<<<DUMPS_FACILITY@16>+4248>+2>	0508
00000000G	00	00000000*	05	FB	0028E	CALLS	#5, LIB\$SIGLAL	
			5C	11	00295	BRB	14\$	0504
		3C	AE	9F	00297	PUSHAB	FIND_RESULT	0514
			52	DD	0029A	PUSHL	R2	
00000000V	EF		02	FB	0029C	CALLS	#2, DUMPSOPEN_INPUT	
	40		50	E9	002A3	BLBC	R0, 13\$	
			52	DD	002A6	PUSHL	R2	0515
		20	AE	9F	002AB	PUSHAB	OUTPUT_DESC	
00000000V	EF		02	FB	002AB	CALLS	#2, DUMPSOPEN_OUTPUT	
	31		50	E9	002B2	BLBC	R0, 13\$	
		FDA0	C6	9F	002B5	PUSHAB	DUMPSGL_OFAB	0518
00000000V	EF		01	FB	002B9	CALLS	#1, DUMPSLIST_WIDTH	



DUMPSMAIN  
V04-000

H 11  
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00000000G	00	2C	A6	9F	002C0	PUSHAB	DUMPSGQ TIME	:	0519
14	A6	10	01	FB	002C3	CALLS	#1, SYS\$GETTIM	:	
00000000G	00		A6	D0	002CA	MOVL	DUMPSGL_NUMBER_QUAL, DUMPSGL_NUMBER	:	0520
			00	FB	002CF	CALLS	#0, DUMPSDUMP_FILE	:	0521
			52	DD	002D6	PUSHL	R2	:	0522
00000000V	EF		01	FB	002D8	CALLS	#1, DUMPSCLOSE_INPUT	:	
00000000V	EF		00	FB	002DF	CALLS	#0, DUMPSCLOSE_OUTPUT	:	0523
		3C	AE	9F	002E6	PUSHAB	FIND_RESULT	:	0525
		38	AE	9F	002E9	PUSHAB	FIND-RELATED	:	
00000000G	00		02	FB	002EC	CALLS	#2, STR\$COPY_DX	:	
	50	FD14	C6	D0	002F3	MOVL	DUMPSGL_INAM, R0	:	0527
	03	35	A0	E9	002F8	BLBC	53(R0), -15\$	:	
			FEFA	31	002FC	BRW	7\$	:	
50 00000000'	EF	10000000	8F	C9	002FF	BISL3	#268435456, EXIT_STATUS, R0	:	0532
			04	0030B	RET			:	0533

; Routine Size: 780 bytes, Routine Base: \$CODE\$ + 0029

```

: 424      0534 1 ROUTINE dump$tparse(string, states, keys)=
: 425      0535 2 BEGIN
: 426      0536 3
: 427      0537 4 This routine calls TPARSE given the string, states and keys.
: 428      0538 5
: 429      0539 6 Inputs:
: 430      0540 7
: 431      0541 8     string          address of descriptor for string
: 432      0542 9     states        address of TPARSE states table
: 433      0543 10    keys          address of TPARSE keys table
: 434      0544 11
: 435      0545 12 MAP
: 436      0546 13     string : REF BBLOCK;
: 437      0547 14
: 438      0548 15
: 439      0549 16 CH$FILL(0, tpa$k_length0, tpa_block);          ! Initialize block
: 440      0550 17 tpa_block[tpa$l_count] = tpa$k_count0;
: 441      0551 18 tpa_block[tpa$l_options] = tpa$m_abbrev;
: 442      0552 19 tpa_block[tpa$l_stringcnt] = .string[dsc$w_length];
: 443      0553 20 tpa_block[tpa$l_stringptr] = .string[dsc$a_pointer];
: 444      0554 21 RETURN lib$tparse(tpa_block, .states, .keys);    ! Call TPARSE
: 445      0555 1 END;
```

007C 00000 DUMP\$TPARSE:									
		56	00000000'	EF	9E	00002	.WORD	Save R2,R3,R4,R5,R6	: 0534
24	00	6E		00	2C	00009	MOVAB	TPA_BLOCK, R6	: 0549
				66		0000E		#0, -(SP), #0, #36, TPA_BLOCK	
		66		08	D0	0000F	MOVL	#8, TPA_BLOCK	: 0550
	04	A6		02	D0	00012	MOVL	#2, TPA_BLOCK+4	: 0551
		50	04	AC	D0	00016	MOVL	STRING, -R0	: 0552
	08	A6		60	3C	0001A	MOVZWL	(R0), TPA_BLOCK+8	
	0C	A6	04	A0	D0	0001E	MOVL	4(R0), TPA_BLOCK+12	: 0553
		7E	08	AC	7D	00023	MOVQ	STATES, -(SP)	: 0554
				56	DD	00027	PUSHL	R6	
		00000000G	00	03	FB	00029	CALLS	#3, LIB\$TPARSE	
				04	00	00030	RET		: 0555

; Routine Size: 49 bytes, Routine Base: \$CODE\$ + 0335



```

: 447 0556 1 ROUTINE dump$store_num=
: 448 0557 BEGIN
: 449 0558
: 450 0559 This routine is called when the /BLOCKS, /RECORDS, or /NUMBER qualifier
: 451 0560 is used. It interrogates flags set by TPARSE to determine which numeric
: 452 0561 value has been parsed and stores it in the appropriate result cell.
: 453 0562
: 454 0563 IF .dump$gl_flags[dump$v_tpa_start] ! Parsing START
: 455 0564 THEN
: 456 0565 BEGIN
: 457 0566 dump$gl_start_qual = .tpa_block[tpa$l_number];
: 458 0567 dump$gl_flags[dump$v_start] = true; ! Note START was present
: 459 0568 END
: 460 0569 ELSE IF .dump$gl_flags[dump$v_tpa_end] ! Parsing END
: 461 0570 THEN
: 462 0571 BEGIN
: 463 0572 dump$gl_end_qual = .tpa_block[tpa$l_number];
: 464 0573 dump$gl_flags[dump$v_end] = true; ! Note END was present
: 465 0574 END
: 466 0575 ELSE IF .dump$gl_flags[dump$v_tpa_count] ! Parsing COUNT
: 467 0576 THEN
: 468 0577 BEGIN
: 469 0578 dump$gl_count_qual = .tpa_block[tpa$l_number];
: 470 0579 dump$gl_flags[dump$v_count] = true; ! Note COUNT was present
: 471 0580 END
: 472 0581 ELSE IF .dump$gl_flags[dump$v_tpa_number] ! Parsing NUMBER
: 473 0582 THEN
: 474 0583 dump$gl_number_qual = .tpa_block[tpa$l_number]
: 475 0584 ELSE
: 476 0585 SIGNAL_STOP(dump$_facility*16 + shr$_badlogic + sts$k_severe);
: 477 0586
: 478 0587
: 479 0588 dump$gl_flags[dump$v_tpa_start] = false; ! Clear flags for next call
: 480 0589 dump$gl_flags[dump$v_tpa_end] = false;
: 481 0590 dump$gl_flags[dump$v_tpa_count] = false;
: 482 0591 dump$gl_flags[dump$v_tpa_number] = false;
: 483 0592
: 484 0593
: 485 0594 RETURN true ! Return success to TPARSE
: 486 0595 1 END;
```

000C 00000 DUMP\$STORE_NUM:								
		53	00000000'	EF	9E	00002	WORD Save R2,R3	0556
		52	00000000'	EF	9E	00009	MOVAB TPA_BLOCK+28, R3	
0B	03	A2		04	E1	00010	MOVAB DUMP\$GL_FLAGS, R2	
	04	A2		63	D0	00015	BBC #4, DUMP\$GL_FLAGS+3, 1\$	0563
	01	A2	80	8F	88	00019	MOVL TPA_BLOCK+28, DUMP\$GL_START_QUAL	0566
				36	11	0001E	BISB2 #128, DUMP\$GL_FLAGS+1	0567
0A	03	A2		05	E1	00020	BRB 5\$	0563
	08	A2		63	D0	00025	BBC #5, DUMP\$GL_FLAGS+3, 2\$	0569
	02	A2		01	88	00029	MOVL TPA_BLOCK+28, DUMP\$GL_END_QUAL	0572
				27	11	0002D	BISB2 #1, DUMP\$GL_FLAGS+2	0573
							BRB 5\$	0569

DUMPSMAIN  
V04-000

K 11  
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0A	03	A2	06	E1	0002F	2\$:	BBC	#6, DUMP\$GL_FLAGS+3, 3\$	:	0575	
	0C	A2	63	D0	00034		MOVL	TPA_BLOCK+28, DUMP\$GL_COUNT_QUAL	:	0578	
	02	A2	02	88	00038		BISB2	#2, DUMP\$GL_FLAGS+2	:	0579	
			18	11	0003C		BRB	5\$	:	0575	
			03	A2	95	0003E	3\$:	TSTB	DUMP\$GL_FLAGS+3	:	0581
			06	18	00041		BGEQ	4\$	:		
	10	A2	63	D0	00043		MOVL	TPA_BLOCK+28, DUMP\$GL_NUMBER_QUAL	:	0583	
			0D	11	00047		BRB	5\$	:		
			8F	DD	00049	4\$:	PUSHL	#<<<DUMP\$ FACILITY@16>+4384>+4>	:	0585	
00000000G	00		01	FB	0004F		CALLS	#1, LIB\$STOP	:		
	03		8F	8A	00056	5\$:	BICB2	#240, DUMP\$GL_FLAGS+3	:	0591	
			01	D0	0005B		MOVL	#1, R0	:	0594	
			04	0005E			RET		:	0595	

; Routine Size: 95 bytes, Routine Base: \$CODE\$ + 0366



```

488 0596 1 ROUTINE dump$open_input(fab, filedesc)=
489 0597 BEGIN
490 0598
491 0599 This routine opens the input file
492 0600
493 0601 Inputs:
494 0602
495 0603     fab      pointer to an already initialized fab complete with NAM block
496 0604     filedesc pointer to string descriptor of resultant string from $sparse
497 0605
498 0606 Outputs:
499 0607
500 0608     File is opened
501 0609
502 0610 Routine value:
503 0611
504 0612     true      successful
505 0613     false     error, signal already done
506 0614
507 0615 MAP
508 0616     fab : REF BBLOCK,
509 0617     filedesc : REF BBLOCK;
510 0618 LOCAL
511 0619     ixab : $XABFHC_DECL,
512 0620     dib : BBLOCK[dib$sc(length)],
513 0621     dibdesc : BBLOCK[dib$sc_s_b(n)],
514 0622     status;
515 0623
516 0624
517 0625 dump$gl_ifab = .fab;           ! Set pointer to FAB
518 0626 dump$gl_inam = .fab[fab$l_nam]; ! and NAM block
519 0627
520 0628 fab[fab$b_shr]=fab$m_get OR fab$m_put OR fab$m_upi; ! Open file shared.
521 0629
522 0630 IF .BBLOCK[fab[fab$l_dev], dev$v_net]           ! If network device
523 0631 THEN
524 0632 BEGIN
525 0633     IF .dump$gl_flags[dump$v_allocated]           ! Ensure no conflicting
526 0634     OR .dump$gl_flags[dump$v_blocks]             ! qualifiers
527 0635     OR .dump$gl_flags[dump$v_header]
528 0636     THEN
529 0637         SIGNAL_STOP(dump$_devquals);
530 0638
531 0639
532 0640     dump$gl_flags[dump$v_records] = true;         ! Force record mode
533 0641     END;
534 0642
535 0643
536 0644 IF .BBLOCK[fab[fab$l_dev], dev$v_for]           ! If foreign device
537 0645 OR (NOT .BBLOCK[fab[fab$l_dev], dev$v_fod]       ! or not disk, tape, or network
538 0646 AND NOT .BBLOCK[fab[fab$l_dev], dev$v_net])
539 0647 THEN
540 0648 BEGIN
541 0649     IF .dump$gl_flags[dump$v_allocated]           ! Ensure no file-oriented
542 0650     OR .dump$gl_flags[dump$v_records]             ! qualifiers
543 0651     OR .dump$gl_flags[dump$v_header]
544 0652     THEN
```

```
545 0653 SIGNAL_STOP(dump$_devquals);
546 0654
547 0655
548 0656 IF (.dump$gl_inam[nam$_fmb] AND ! Ensure nothing except device
549 0657 (nam$_exp_dir OR
550 0658 nam$_exp_name OR
551 0659 nam$_exp_type OR
552 0660 nam$_exp_ver OR
553 0661 nam$_wildcard)) NEQ 0
554 0662 THEN
555 0663 SIGNAL_STOP(dump$_devspec);
556 0664 END
557 0665 ELSE
558 0666 BEGIN
559 0667 IF NOT .BBLOCK[fab[fab$_dev], dev$_rnd] ! Ensure no disk-oriented
560 0668 AND .dump$gl_flags[dump$_allocated] ! qualifiers on tape
561 0669 THEN
562 0670 SIGNAL_STOP(dump$_devquals);
563 0671
564 0672
565 P 0673 $XABFHC_INIT(xab=ixab, ! Initialize XAB
566 0674 nxt=0);
567 0675 fab[fab$_xab] = ixab; ! Set pointer to XAB
568 0676 END;
569 0677
570 0678
571 0679 IF NOT .dump$gl_flags[dump$_records]
572 0680 THEN
573 0681 fab[fab$_ufo] = true ! Open file only
574 0682 ELSE
575 0683 fab[fab$_get] = fab[fab$_sqo] = true; ! Allow GETs, sequential op
576 0684
577 0685
578 0686 IF NOT .BBLOCK[fab[fab$_dev], dev$_for] ! Do OPEN if not foreign
579 0687 THEN
580 0688 BEGIN
581 0689 IF NOT $OPEN(fab=.fab) ! Open the input file
582 0690 THEN
583 0691 BEGIN
584 0692 dump$file_error(
585 0693 dump$_facility*16 + shr$_openin + sts$_error,
586 0694 .fab,
587 0695 .fab[fab$_sts], .fab[fab$_stv]);
588 0696 fab[fab$_xab] = 0;
589 0697 RETURN false;
590 0698 END;
591 0699 END;
592 0700
593 0701 fab[fab$_xab] = 0;
594 0702
595 0703 IF .BBLOCK[fab[fab$_dev], dev$_for] ! If foreign device
596 0704 OR (NOT .BBLOCK[fab[fab$_dev], dev$_fod] ! or not disk, tape, or network
597 0705 AND NOT .BBLOCK[fab[fab$_dev], dev$_net])
598 0706 THEN
599 0707 BEGIN
600 0708 dump$gl_idesc[dsc$_length] = .dump$gl_inam[nam$_dev]; ! Prune to
601 0709 dump$gl_idesc[dsc$_a_pointer] = .dump$gl_inam[nam$_dev]; ! device only
```



```

602 P 0710 3      status = $ASSIGN(DEVNAM = dump$gl_idesc,      ! Do ASSIGN if foreign
603      0711 3      CHAN = fab[fab$l_stv]);
604      0712 3      IF NOT .status THEN SIGNAL_STOP(.status);
605      0713 3      END
606      0714 3      ELSE
607      0715 3      BEGIN
608      0716 3      dump$gl_idesc[dsc$w_length] = .dump$gl_inam[nam$b_rsl];
609      0717 3      dump$gl_idesc[dsc$a_pointer] = .dump$gl_inam[nam$t_rsa];
610      0718 3      END;
611      0719 3
612      0720 3
613      0721 3      IF NOT .dump$gl_flags[dump$w_records]
614      0722 3      THEN
615      0723 3      dump$gl_channel = .fab[fab$l_stv]      ! Save the channel
616      0724 3      ELSE
617      0725 3      BEGIN
618      0726 3      $RAB_INIT(rab=dump$gl_irab,      ! Initialize input RAB
619      0727 3      fab=.fab);
620      0728 3      IF NOT $CONNECT(rab=dump$gl_irab)      ! Connect RAB
621      0729 3      THEN
622      0730 3      BEGIN
623      0731 3      dump$file_error(
624      0732 3      dump$_facility^16 + shr$_openin + sts$_error,
625      0733 3      .fab,
626      0734 3      .dump$gl_irab[rab$l_sts], .dump$gl_irab[rab$l_stv]);
627      0735 3      RETURN false;
628      0736 3      END;
629      0737 3      END;
630      0738 3
631      0739 3
632      0740 3      dump$gl_cur_block = 1;
633      0741 3      dump$gl_max_block = -1;
634      0742 3
635      0743 3      IF .BBLOCK[fab[fab$l_dev], dev$v_rnd]      ! Disk device
636      0744 3      THEN
637      0745 3      IF .BBLOCK[fab[fab$l_dev], dev$v_for]      ! If foreign disk
638      0746 3      THEN
639      0747 3      BEGIN
640      0748 3      dibdesc[dsc$w_length] = dib$_length;      ! Set up to get device
641      0749 3      dibdesc[dsc$a_pointer] = dib;      ! characteristics
642      0750 3      status = $GETCHN(CHAN=.dump$gl_channel, PRIBUF=dibdesc);
643      0751 3      IF NOT .status
644      0752 3      THEN
645      0753 3      SIGNAL_STOP(dump$_getchn, 0, .status);
646      0754 3      dump$gl_cur_block = 0;
647      0755 3      dump$gl_max_block = .dib[dib$l_maxblock] - 1;
648      0756 3      END
649      0757 3      ELSE
650      0758 3      BEGIN      ! Files-11 disk
651      0759 3
652      0760 3      ! Save FHC information for page heading.
653      0761 3      !
654      0762 3      dump$gl_file_efblk = .ixab[xab$l_ebk];
655      0763 3      IF .dump$gl_file_efblk NEQ 0 AND .ixab[xab$w_ffb] EQL 0
656      0764 3      THEN
657      0765 3      dump$gl_file_efblk = .dump$gl_file_efblk - 1;
658      0766 3      dump$gl_file_hiblk = .fab[fab$l_atq];
```



```

659      0767 3      IF NOT .dump$gl_flags[dump$v_records]      ! Not record mode
660      0768 3      THEN
661      0769 4          BEGIN
662      0770 4              dump$gl_max_block = .dump$gl_file_efblk;
663      0771 4              IF .dump$gl_flags[dump$v_allocated]
664      0772 4                  THEN dump$gl_max_block = .dump$gl_file_hiblk;
665      0773 3          END;
666      0774 2      END;
667      0775 2
668      0776 2      IF .dump$gl_flags[dump$v_start]
669      0777 2      THEN
670      0778 2          dump$gl_cur_block = MAXU(.dump$gl_cur_block, .dump$gl_start_qual);
671      0779 2
672      0780 2      IF .BBLOCK[fab[fab$l_dev], dev$v_for]
673      0781 2      AND .dump$gl_cur_block GTRU .dump$gl_max_block
674      0782 2      THEN SIGNAL_STOP(dump$_badstart, 1, .dump$gl_max_block);
675      0783 2
676      0784 2      IF .dump$gl_flags[dump$v_end]
677      0785 2      THEN
678      0786 2          dump$gl_max_block = MINU(.dump$gl_max_block, .dump$gl_end_qual);
679      0787 2
680      0788 2      IF .dump$gl_flags[dump$v_count]
681      0789 2      THEN
682      0790 2          IF .dump$gl_flags[dump$v_start]
683      0791 2          THEN
684      0792 2              dump$gl_max_block = MINU(.dump$gl_max_block,
685      0793 2                  .dump$gl_start_qual + .dump$gl_count_qual - 1)
686      0794 2          ELSE
687      0795 2              dump$gl_max_block = MINU(.dump$gl_max_block,
688      0796 2                  .dump$gl_cur_block + .dump$gl_count_qual - 1);
689      0797 2
690      0798 2
691      0799 2      dump$gl_record = 0;
692      0800 2      IF NOT .dump$gl_flags[dump$v_records]
693      0801 2      AND .BBLOCK[fab[fab$l_dev], dev$v_rnd]
694      0802 2      THEN
695      0803 2          dump$gl_record = .dump$gl_cur_block - 1;
696      0804 2
697      0805 2
698      0806 2      ! Allocate input buffer.
699      0807 2
700      0808 2      IF .dump$gl_flags[dump$v_records]      ! If record dump
701      0809 2      THEN
702      0810 2          dump$gl_buffer[dsc$w_length] = dump$c_rmsbufsz      ! Largest RMS record
703      0811 2      ELSE
704      0812 2          IF .BBLOCK[fab[fab$l_dev], dev$v_sqd]
705      0813 2          THEN
706      0814 2              dump$gl_buffer[dsc$w_length] = dump$c_tapbufsz      ! Largest tape QIO
707      0815 2          ELSE
708      0816 2              dump$gl_buffer[dsc$w_length] = dump$c_qiobufsz;      ! Largest non-tape QIO
709      0817 2
710      0818 2
711      0819 2      status = lib$get_vm(      ! Get memory
712      0820 2          dump$gl_buffer[dsc$w_length],
713      0821 2          dump$gl_buffer[dsc$a_pointer]);
714      0822 2      IF NOT .status THEN SIGNAL_STOP(dump$_novirmem, 0, .status);
715      0823 2
```



```
: 716      0824 2
: 717      0825 2 dump$gl_irab[rab$w_usz] = .dump$gl_buffer[dsc$w_length];
: 718      0826 2 dump$gl_irab[rab$l_ubf] = .dump$gl_buffer[dsc$a_pointer];
: 719      0827 2 RETURN true
: 720      0828 1 END;
```

```
$RMS_PTR=
.EXTRN DUMP$GL_IRAB
.EXTRN SYSS$OPEN, SYSS$ASSIGN
.EXTRN SYSS$CONNECT, SYSS$GETCHN
```

OFFC 00000 DUMP\$OPEN INPUT:

		5B	00000000G	8F	D0	00002	WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	0596
		5A	00000000G	00	9E	00009	MOVL	#DUMP\$ DEVQUALS, R11	
		59	000C0000'	EF	9E	00010	MOVAB	LIB\$STOP, R10	
		5E	FF58	CE	9E	00017	MOVAB	DUMP\$GL_FLAGS, R9	
		56	04	AC	D0	0001C	MOVAB	-168(SP), SP	
	FD10	C9		56	D0	00020	MOVL	FAB, R6	0625
	FD14	C9	28	A6	D0	00025	MOVL	R6, DUMP\$GL_IFAB	
	17	A6	43	8F	90	0002B	MOVL	40(R6), DUMP\$GL_INAM	0626
		57	40	A6	9E	00030	MOVB	#67, 23(R6)	0628
		67		0D	E1	00034	MOVAB	64(R6), R7	0630
14		08		69	E8	00038	BBC	#13, (R7), 3\$	
		69		01	E0	0003B	BLBS	DUMP\$GL_FLAGS, 1\$	0633
04		69		06	E1	0003F	BBS	#1, DUMP\$GL_FLAGS, 1\$	0634
05				5B	DD	00043	BBC	#6, DUMP\$GL_FLAGS, 2\$	0635
		6A		01	FB	00045	PUSHL	R11	0637
	01	A9		20	88	00048	CALLS	#1, LIB\$STOP	
		08	03	A7	E8	0004C	BISB2	#32, DUMP\$GL_FLAGS+1	0640
		67		0E	E0	00050	BLBS	3(R7), 4\$	0644
2D		67		0D	E0	00054	BBS	#14, (R7), 7\$	0645
29		09		69	E8	00058	BBS	#13, (R7), 7\$	0646
		09		05	E0	0005B	BLBS	DUMP\$GL_FLAGS, 5\$	0649
04	01	A9		06	E1	00060	BBS	#5, DUMP\$GL_FLAGS+1, 5\$	0650
05		69		5B	DD	00064	BBC	#6, DUMP\$GL_FLAGS, 6\$	0651
		6A		01	FB	00066	PUSHL	R11	0653
		50	FD14	C9	D0	00069	CALLS	#1, LIB\$STOP	
	0147	8F	34	A0	B3	0006E	MOVL	DUMP\$GL_INAM, R0	0656
				29	13	00074	BITW	52(R0), #327	0661
			00000000G	8F	DD	00076	BEQL	9\$	
		6A		01	FB	0007C	PUSHL	#DUMP\$ DEVSPEC	0663
				1E	11	0007F	CALLS	#1, LIB\$STOP	
08		67		1C	E0	00081	BRB	9\$	0644
		05		69	E9	00085	BBS	#28, (R7), 8\$	0667
				5B	DD	00088	BLBC	DUMP\$GL_FLAGS, 8\$	0668
		6A		01	FB	0008A	PUSHL	R11	0670
2C	00	6E		00	2C	0008D	CALLS	#1, LIB\$STOP	
			7C	AE		00092	MOVC5	#0, (SP), #0, #44, \$RMS_PTR	0674
	7C	AE	2C1D	8F	B0	00094			
	24	A6	7C	AE	9E	0009A	MOVW	#11293, \$RMS_PTR	
	01	A9		05	E0	0009F	MOVAB	IXAB, 36(R6)	0675
	06	A6		02	88	000A4	BBS	#5, DUMP\$GL_FLAGS+1, 10\$	0679
				09	11	000A8	BISB2	#2, 6(R6)	0681
	04	A6	40	8F	88	000AA	BRB	11\$	
	16	A6		02	88	000AF	BISB2	#64, 4(R6)	0683
							BISB2	#2, 22(R6)	



	25	03	A7	E8	000B3	11\$:	BLBS	3(R7), 12\$	0686
			56	DD	000B7		PUSHL	R6	0689
00000000G	00		01	FB	000B9		CALLS	#1, SYSSOPEN	
	19		50	E8	000C0		BLBS	R0, 12\$	
	7E	08	A6	7D	000C3		MOVQ	8(R6), -(SP)	0695
			56	DD	000C7		PUSHL	R6	0694
00000000V	EF	00000000*	8F	DD	000C9		PUSHL	#<<<DUMPS FACILITY@16>+4248>+2>	0693
			04	FB	000CF		CALLS	#4, DUMPSFILE_ERROR	
		24	A6	D4	000D6		CLRL	36(R6)	0696
		01D8	31	000D9		BRW	37\$		0697
		24	A6	D4	000DC	12\$:	CLRL	36(R6)	0701
	50	FD14	C9	D0	000DF		MOVL	DUMPSGL_INAM, R0	0708
2D	08	03	A7	E8	000E4		BLBS	3(R7), 13\$	0703
29	67		0E	E0	000E8		BBS	#14, (R7), 14\$	0704
	67		0D	E0	000EC		BBS	#13, (R7), 14\$	0705
FF50	C9	39	A0	9B	000F0	13\$:	MOVZBW	57(R0), DUMPSGL_IDESC	0708
FF54	C9	44	A0	D0	000F6		MOVL	68(R0), DUMPSGL_IDESC+4	0709
			7E	7C	000FC		CLRQ	-(SP)	0711
		0C	A6	9F	000FE		PUSHAB	12(R6)	
		FF50	C9	9F	00101		PUSHAB	DUMPSGL_IDESC	
00000000G	00		04	FB	00105		CALLS	#4, SYSEASSIGN	
	58		50	D0	0010C		MOVL	R0, STATUS	
	13		58	E8	0010F		BLBS	STATUS, 15\$	0712
			58	DD	00112		PUSHL	STATUS	
	6A		01	FB	00114		CALLS	#1, LIB\$STOP	
			0C	11	00117		BRB	15\$	0703
FF50	C9	03	A0	9B	00119	14\$:	MOVZBW	3(R0), DUMPSGL_IDESC	0716
FF54	C9	04	A0	D0	0011F		MOVL	4(R0), DUMPSGL_IDESC+4	0717
07	01		05	E0	00125	15\$:	BBS	#5, DUMPSGL_FLAGS+1, 16\$	0721
EC	A9	0C	A6	D0	0012A		MOVL	12(R6), DUMPSGL_CHANNEL	0723
			3B	11	0012F		BRB	17\$	
0044	8F	00	00	2C	00131	16\$:	MOVCS	#0, (SP), #0, #68, \$RMS_PTR	0727
			00		00138				
FD18	C9	FD18	C9	8F	B0	0013B	MOVW	#17409, \$RMS_PTR	
FD54	C9	4401	56	D0	00142		MOVL	R6, \$RMS_PTR+60	
			C9	9F	00147		PUSHAB	DUMPSGL_IRAB	0728
00000000G	00	FD18	01	FB	0014B		CALLS	#1, SYSSCONNECT	
	17		50	E8	00152		BLBS	R0, 17\$	
	7E	FD20	C9	7D	00155		MOVQ	DUMPSGL_IRAB+8, -(SP)	0734
			56	DD	0015A		PUSHL	R6	0733
		00000000*	8F	DD	0015C		PUSHL	#<<<DUMPS FACILITY@16>+4248>+2>	0732
00000000V	EF		04	FB	00162		CALLS	#4, DUMPSFILE_ERROR	
		0148	31	00169		BRW	37\$		0735
	18		01	D0	0016C	17\$:	MOVL	#1, DUMPSGL_CUR_BLOCK	0740
	1C		01	CE	00170		MNEGL	#1, DUMPSGL_MAX_BLOCK	0741
62	67		1C	E1	00174		BBC	#28, (R7), 21\$	0743
	38	03	A7	E9	00178		BLBC	3(R7), 19\$	0745
	6E	74	8F	9B	0017C		MOVZBW	#116, DIBDESC	0748
	04	08	AE	9E	00180		MOVAB	DIB, DIBDESC+4	0749
			7E	7C	00185		CLRQ	-(SP)	0750
		08	AE	9F	00187		PUSHAB	DIBDESC	
			7E	D4	0018A		CLRL	-(SP)	
		EC	A9	DD	0018C		PUSHL	DUMPSGL_CHANNEL	
00000000G	00		05	FB	0018F		CALLS	#5, SYSSGETCHN	
	58		50	D0	00196		MOVL	R0, STATUS	
	0D		58	E8	00199		BLBS	STATUS, 18\$	0751
			58	DD	0019C		PUSHL	STATUS	0753



			00000000G	7E	D4	0019E	CLRL	-(SP)		
		6A		8F	DD	001A0	PUSHL	#DUMPS GETCHN		
			18	03	FB	001A6	CALLS	#3, LIB\$STOP		
1C	A9	78	AE	A9	D4	001A9	CLRL	DUMPSGL_CUR_BLOCK	0754	
				01	C3	001AC	SUBL3	#1, DIB+112, DUMPSGL_MAX_BLOCK	0755	
		20	A9	26	11	001B2	BRB	21\$	0745	
			E4	AD	D0	001B4	MOVL	IXAB+16, DUMPSGL_FILE_EFBLK	0762	
				08	13	001B9	BEQL	20\$	0763	
			E8	AD	B5	001BB	TSTW	IXAB+20		
				03	12	001BE	BNEQ	20\$		
		24	A9	A9	D7	001C0	DECL	DUMPSGL_FILE_EFBLK	0765	
OD		01	A9	A6	D0	001C3	MOVL	16(R6), DUMPSGL_FILE_HIBLK	0766	
		1C	A9	05	E0	001C8	BBS	#5, DUMPSGL_FLAGS+1, 21\$	0767	
			05	A9	D0	001CD	MOVL	DUMPSGL_FILE_EFBLK, DUMPSGL_MAX_BLOCK	0770	
		1C	A9	69	E9	001D2	BLBC	DUMPSGL_FLAGS, 21\$	0771	
				A9	D0	001D5	MOVL	DUMPSGL_FILE_HIBLK, DUMPSGL_MAX_BLOCK	0772	
			01	A9	95	001DA	TSTB	DUMPSGL_FLAGS+1	0776	
				12	18	001DD	BGEQ	23\$		
		04	50	A9	D0	001DF	MOVL	DUMPSGL_CUR_BLOCK, R0	0778	
			A9	50	D1	001E3	CMPL	R0, DUMPSGL_START_QUAL		
				04	1E	001E7	BGEQU	22\$		
			50	A9	D0	001E9	MOVL	DUMPSGL_START_QUAL, R0		
		18	A9	50	D0	001ED	MOVL	R0, DUMPSGL_CUR_BLOCK		
			15	A7	E9	001F1	BLBC	3(R7), 24\$	0780	
		1C	A9	A9	D1	001F5	CMPL	DUMPSGL_CUR_BLOCK, DUMPSGL_MAX_BLOCK	0781	
				0E	1B	001FA	BLEQU	24\$		
			1C	A9	DD	001FC	PUSHL	DUMPSGL_MAX_BLOCK	0782	
				01	DD	001FF	PUSHL	#1		
			00000000G	8F	DD	00201	PUSHL	#DUMPS BADSTART		
		6A		03	FB	00207	CALLS	#3, LIB\$STOP		
		12		A9	E9	0020A	BLBC	DUMPSGL_FLAGS+2, 26\$	0784	
			02	A9	D0	0020E	MOVL	DUMPSGL_MAX_BLOCK, R0	0786	
		08	A9	50	D1	00212	CMPL	R0, DUMPSGL_END_QUAL		
				04	1B	00216	BLEQU	25\$		
			50	A9	D0	00218	MOVL	DUMPSGL_END_QUAL, R0		
30		1C	A9	50	D0	0021C	MOVL	R0, DUMPSGL_MAX_BLOCK		
		02	A9	01	E1	00220	BBC	#1, DUMPSGL_FLAGS+2, 30\$	0788	
				A9	95	00225	TSTB	DUMPSGL_FLAGS+1	0790	
			01	13	18	00228	BGEQ	27\$		
51		04	A9	A9	C1	0022A	ADDL3	DUMPSGL_COUNT_QUAL, DUMPSGL_START_QUAL, R1	0793	
				51	D7	00230	DECL	R1		
			50	A9	D0	00232	MOVL	DUMPSGL_MAX_BLOCK, R0		
			51	50	D1	00236	CMPL	R0, R1		
				13	1A	00239	BGTRU	28\$		
				14	11	0023B	BRB	29\$	0792	
51		18	A9	A9	C1	0023D	ADDL3	DUMPSGL_COUNT_QUAL, DUMPSGL_CUR_BLOCK, R1	0796	
				51	D7	00243	DECL	R1		
			50	A9	D0	00245	MOVL	DUMPSGL_MAX_BLOCK, R0		
			51	50	D1	00249	CMPL	R0, R1		
				03	1B	0024C	BLEQU	29\$		
			50	51	D0	0024E	MOVL	R1, R0		
		1C	A9	50	D0	00251	MOVL	R0, DUMPSGL_MAX_BLOCK	0795	
				A9	D4	00255	CLRL	DUMPSGL_RECORD	0799	
			28	05	E0	00258	BBS	#5, DUMPSGL_FLAGS+1, 32\$	0800	
OF		01	A9	1C	E1	0025D	BBC	#28, (R7), 31\$	0801	
06				01	C3	00261	SUBL3	#1, DUMPSGL_CUR_BLOCK, DUMPSGL_RECORD	0803	
28	A9	18	A9	05	E1	00267	BBC	#5, DUMPSGL_FLAGS+1, 33\$	0808	
08		01	A9							

DUMPSMAIN  
V04-000

F 12  
16-Sep-1984 01:26:41  
14-Sep-1984 12:21:35

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[DUMP.SRC]DUMP.B32;1

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06	F8	A9	7FFF	8F	B0	0026C	32\$:	MOVW	#32767, DUMP\$GL_BUFFER	:	0810
				10	11	00272		BRB	35\$	:	
		67		05	E1	00274	33\$:	BBC	#5, (R7), 34\$	:	0812
	F8	A9		01	AE	00278		MNEGW	#1, DUMP\$GL_BUFFER	:	0814
				06	11	0027C		BRB	35\$	:	
	F8	A9	0200	8F	B0	0027E	34\$:	MOVW	#512, DUMP\$GL_BUFFER	:	0816
			FC	A9	9F	00284	35\$:	PUSHAB	DUMP\$GL_BUFFER+4	:	0821
			F8	A9	9F	00287		PUSHAB	DUMP\$GL_BUFFER	:	0820
00000000G		00		02	FB	0028A		CALLS	#2, LIB\$GET_VM	:	
		58		50	D0	00291		MOVL	R0, STATUS	:	
		0D		58	E8	00294		BLBS	STATUS, 36\$	:	0822
				58	DD	00297		PUSHL	STATUS	:	
				7E	D4	00299		CLRL	-(SP)	:	
			00000000G	8F	DD	0029B		PUSHL	#DUMP\$ NOVIRMEM	:	
		6A		03	FB	002A1		CALLS	#3, LIB\$STOP	:	
FD38		C9	F8	A9	B0	002A4	36\$:	MOVW	DUMP\$GL_BUFFER, DUMP\$GL_IRAB+32	:	0825
FD3C		C9	FC	A9	D0	002AA		MOVL	DUMP\$GL_BUFFER+4, DUMP\$GL_IRAB+36	:	0826
		50		01	D0	002B0		MOVL	#1, R0	:	0827
					04	002B3		RET		:	
				50	D4	002B4	37\$:	CLRL	R0	:	0828
				04	002B6			RET		:	

; Routine Size: 695 bytes, Routine Base: \$CODE\$ + 03C5



```

722 0829 1 ROUTINE dump$open_output(output_desc, ifab)=
723 0830 BEGIN
724 0831
725 0832 Open output file
726 0833
727 0834 Inputs:
728 0835
729 0836 output_desc pointer to string descriptor for output file
730 0837 ifab pointer to input fab
731 0838
732 0839 MAP
733 0840 output_desc : REF BBLOCK,
734 0841 ifab : REF BBLOCK;
735 0842
736 0843
737 P 0844 $FAB_INIT(fab=dump$gl_ofab, ! Initialize output FAB
738 P 0845 dna=UPLIT BYTE('DMP'), ! Default /OUTPUT type
739 P 0846 dns=%CHARCOUNT('DMP'),
740 P 0847 nam=dump$gl_onam,
741 P 0848 fop=<ofp,sq>,
742 P 0849 rat=cr,
743 0850 fac=put);
744 0851
745 0852
746 P 0853 $NAM_INIT(nam=dump$gl_onam, ! Initialize output NAM block
747 P 0854 rlf=.ifab[fab$l_nam],
748 P 0855 rss=nam$c_maxrss,
749 P 0856 rsa=dump$gl_orss,
750 P 0857 ess=nam$c_maxrss,
751 0858 esa=dump$gl_orss);
752 0859
753 0860
754 P 0861 $RAB_INIT(rab=dump$gl_orab, ! Initialize output RAB
755 0862 fab=dump$gl_ofab);
756 0863
757 0864
758 0865 ! Create the output file and connect record stream.
759 0866
760 0867 IF .dump$gl_flags[dump$v_printer] ! If /PRINTER requested,
761 0868 THEN
762 0869 BEGIN
763 0870 dump$gl_ofab[fab$v_spl] = true; ! Spool listing
764 0871 dump$gl_ofab[fab$v_dlt] = true; ! Delete after printing
765 0872 END
766 0873 ELSE
767 0874 IF .dump$gl_flags[dump$v_output] ! If /OUTPUT requested
768 0875 THEN
769 0876 BEGIN
770 0877 IF .output_desc[dsc$w_length] NEQ 0 ! If /OUTPUT has a value
771 0878 THEN
772 0879 BEGIN
773 0880 dump$gl_ofab[fab$l_fna] = .output_desc[dsc$a_pointer];
774 0881 dump$gl_ofab[fab$b_fns] = .output_desc[dsc$w_length];
775 0882 END
776 0883 END
777 0884 ELSE
778 0885 BEGIN ! Else, default to SYS$OUTPUT
```

```

: 779      0886      3      dump$gl_ofab[fab$l_fna] = UPLIT BYTE('SYSS$OUTPUT');
: 780      0887      3      dump$gl_ofab[fab$b_fns] = %CHARCOUNT('SYSS$OUTPUT');
: 781      0888      3      END;
: 782      0889      3
: 783      0890      3
: 784      0891      3      IF NOT $CREATE(fab=dump$gl_ofab)
: 785      0892      3      THEN
: 786      0893      3      BEGIN
: 787      0894      3      dump$file_error(
: 788      0895      3      dump$_facility^16 + shr$_openout + sts$k_error,
: 789      0896      3      dump$gl_ofab,
: 790      0897      3      .dump$gl_ofab[fab$l_sts], .dump$gl_ofab[fab$l_stv]);
: 791      0898      3      RETURN false;
: 792      0899      3      END;
: 793      0900      3
: 794      0901      3      IF NOT $CONNECT(rab=dump$gl_orab)
: 795      0902      3      THEN
: 796      0903      3      BEGIN
: 797      0904      3      dump$file_error(
: 798      0905      3      dump$_facility^16 + shr$_openout + sts$k_error,
: 799      0906      3      dump$gl_ofab,
: 800      0907      3      .dump$gl_orab[rab$l_sts], .dump$gl_orab[rab$l_stv]);
: 801      0908      3      RETURN false;
: 802      0909      3      END;
: 803      0910      3
: 804      0911      3
: 805      0912      3      dump$gl_odesc[dsc$_length] = .dump$gl_onam[nam$b_rsl];
: 806      0913      3      dump$gl_odesc[dsc$_pointer] = .dump$gl_onam[nam$_rsa];
: 807      0914      3      RETURN true
: 808      0915      1      END;

```

.PSECT \$SPLITS,NOWRT,NOEXE,2

54 55 50 54 55 4F 50 4D 44 2E 00158 P.ABQ: .ASCII \.DMP\  
24 53 59 53 0015C P.ABR: .ASCII \SYSS\$OUTPUT\

\$RMS\_PTR= DUMP\$GL\_OFAB  
\$RMS\_PTR= DUMP\$GL\_ONAM  
\$RMS\_PTR= DUMP\$GL\_ORAB  
.EXTRN SYSS\$CREATE

.PSECT \$CODE\$,NOWRT,2

007C 00000 DUMP\$OPEN OUTPUT:

```

0050 8F      00      56 00000000' EF 9E 00002      .WORD Save R2,R3,R4,R5,R6
      6E      00 2C 00009      MOVAB $RMS_PTR, R6
      66      5003 8F B0 00011      MOVCS #0, (SP), #0, #80, $RMS_PTR
04      A6 20000040 8F D0 00016      MOVW #20483, $RMS_PTR
16      A6      0202 01 90 0001E      MOVL #536870976, $RMS_PTR+4
1E      A6      50 8F B0 00022      MOVW #1, $RMS_PTR+22
28      A6 00000000' EF 9E 00028      MOVW #514, $RMS_PTR+30
30      A6      04 90 00035      MOVAB DUMP$GL_ONAM, $RMS_PTR+40
35      A6      04 90 00035      MOVAB P.ABQ, $RMS_PTR+48
      A6      04 90 00035      MOVW #4, $RMS_PTR+53

```

: 0829

: 0850



0060	8F	00	6E	50	00	2C	00039	MOV C5	#0, (SP), #0, #96, \$RMS_PTR	0858
				50	A6		00040			
				52	A6	6002	8F B0	MOVW	#24578, \$RMS_PTR	
				54	A6		01 8E	MNEGB	#1, \$RMS_PTR+2	
				5A	A6	00B0	C6 9E	MOVAB	DUMP\$GL_ORSS, \$RMS_PTR+4	
				5C	A6		01 8E	MNEGB	#1, \$RMS_PTR+10	
					50	00B0	C6 9E	MOVAB	DUMP\$GL_ORSS, \$RMS_PTR+12	
					08		AC D0	MOVL	IFAB, R0	
					28		A0 D0	MOVL	40(R0), \$RMS_PTR+16	
0044	8F	00	6E		00	2C	00065	MOV C5	#0, (SP), #0, #68, \$RMS_PTR	0862
					BC		A6			
					4401		8F B0	MOVW	#17409, \$RMS_PTR	
							66 9E	MOVAB	DUMP\$GL_OFAB, \$RMS_PTR+60	
							04 E1	BBC	#4, DUMP\$GL_FLAGS+1, 1\$	0867
							8F 88	BISB2	#160, DUMP\$GL_OFAB+5	0871
							25 11	BRB	3\$	0867
							03 E1	BBC	#3, DUMP\$GL_FLAGS+1, 2\$	0874
							AC D0	MOVL	OUTPUT_DESC, R0	0877
							60 B5	TSTW	(R0)	
							17 13	BEQL	3\$	
							A0 D0	MOVL	4(R0), DUMP\$GL_OFAB+44	0880
							60 90	MOVB	(R0), DUMP\$GL_OFAB+52	0881
							0C 11	BRB	3\$	0876
							EF 9E	MOVAB	P.ABR, DUMP\$GL_OFAB+44	0886
							0A 90	MOVB	#10, DUMP\$GL_OFAB+52	0887
							56 DD	PUSHL	R6	0891
							01 FB	CALLS	#1, SYS\$CREATE	
							50 E8	BLBS	R0, 4\$	
							A6 7D	MOVQ	DUMP\$GL_OFAB+8, -(SP)	0897
							11 11	BRB	5\$	0894
							A6 9F	PUSHAB	DUMP\$GL_ORAB	0901
							01 FB	CALLS	#1, SYS\$CONNECT	
							50 E8	BLBS	R0, 6\$	
							A6 7D	MOVQ	DUMP\$GL_ORAB+8, -(SP)	0907
							56 DD	PUSHL	R6	0904
							8F DD	PUSHL	#<<<DUMP\$ FACILITY@16>+4256>+2>	0905
							04 FB	CALLS	#4, DUMP\$FILE_ERROR	
							10 11	BRB	7\$	0908
							A6 9B	MOVZBW	DUMP\$GL_ONAM+3, DUMP\$GL_ODESC	0912
							A6 D0	MOVL	DUMP\$GL_ONAM+4, DUMP\$GL_ODESC+4	0913
							01 D0	MOVL	#1, R0	0914
							04 00	RET		
							50 D4	CLRL	R0	0915
							04 00	RET		

; Routine Size: 241 bytes, Routine Base: \$CODE\$ + 067C

```

810 0916 1 GLOBAL ROUTINE dump$read(bufdesc)=
811 0917 BEGIN
812 0918
813 0919 ! This routine reads from the input file.
814 0920
815 0921 MAP
816 0922     bufdesc : REF BBLOCK;
817 0923 LOCAL
818 0924     iosb : VECTOR[4,WORD],
819 0925     status;
820 0926
821 0927
822 0928 IF NOT .dump$gl_flags[dump$v_records] ! If reading with QIO
823 0929 THEN
824 0930 BEGIN
825 0931     IF NOT .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_rnd]
826 0932 THEN
827 0933 BEGIN ! One QIO = one block
828 0934     DECR i FROM 1 TO 0 DO
829 0935     BEGIN
830 0936         status = $QIOW(
831 0937             CHAN=.dump$gl_channel,
832 0938             FUNC=(IF .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_for]
833 0939                 THEN ios_readblk
834 0940                 ELSE ios_readvblk),
835 0941             IOSB=iosb,
836 0942             P1=.dump$gl_buffer[dsc$a_pointer],
837 0943             P2=.dump$gl_buffer[dsc$w_length]);
838 0944     bufdesc[dsc$w_length] = .iosb[1]; ! Bytes actually read
839 0945     bufdesc[dsc$a_pointer] = .dump$gl_buffer[dsc$a_pointer];
840 0946     IF .status THEN status = .iosb[0];
841 0947
842 0948     IF .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_trm] ! Handle ^Z
843 0949     AND .iosb[2] EQL %0'032' ! from terminal
844 0950 THEN
845 0951     status = ss$endoffile;
846 0952
847 0953     IF .status EQL ss$endoffile ! Print message if end of file
848 0954     AND .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_sqd]
849 0955     AND .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_for]
850 0956 THEN
851 0957     BEGIN
852 0958         dump$blank_line();
853 0959         dump$output_getmsg(dump$endoffile, %B'0001');
854 0960         IF .i EQL 0 THEN EXITLOOP;
855 0961     END
856 0962     ELSE
857 0963     EXITLOOP;
858 0964     END;
859 0965 END
860 0966 ELSE
861 0967 BEGIN
862 0968     IF .dump$gl_cur_block GTRU .dump$gl_max_block
863 0969 THEN
864 0970     RETURN ss$endoffile; ! Return EOF status
865 0971     status = $QIOW
866 0972     CHAN=.dump$gl_channel,
```



```

: 867      P 0973 4      FUNC=(IF ,BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_for]
: 868      PP 0974 4      THEN ios_readlblk
: 869      PP 0975 4      ELSE ios_readvblk),
: 870      PP 0976 4      iosb=iosb,
: 871      PP 0977 4      P1=.dump$gl_buffer[dsc$a_pointer],
: 872      P 0978 4      P2=512,
: 873      0979 4      P3=.dump$gl_cur_block);
: 874      0980 4      IF .status THEN status = .iosb[0];
: 875      0981 4      bufdesc[dsc$w_length] = 512;
: 876      0982 4      bufdesc[dsc$a_pointer] = .dump$gl_buffer[dsc$a_pointer];
: 877      0983 4      dump$gl_cur_block = .dump$gl_cur_block + 1;      ! Advance pointer
: 878      0984 4      END;
: 879      0985 4      IF NOT .status
: 880      0986 4      AND .status NEQ ss$_endoffile
: 881      0987 4      AND .status NEQ ss$_parity
: 882      0988 4      AND .status NEQ ss$_datacheck
: 883      0989 4      AND .status NEQ ss$_endoftape
: 884      0990 4      AND .status NEQ ss$_illblknum
: 885      0991 4      THEN
: 886      0992 4      BEGIN
: 887      0993 4      SIGNAL(
: 888      0994 4      dump$_facility^16 + shr$_readerr + sts$k_error,
: 889      0995 4      1, dump$gl_idesc,
: 890      0996 4      .status);
: 891      0997 4      status = ss$_endoffile;
: 892      0998 4      END
: 893      0999 4      END
: 894      1000 4      ELSE
: 895      1001 4      BEGIN
: 896      1002 4      status = $GET(rab=dump$gl_irab);      ! Get record
: 897      1003 4      bufdesc[dsc$w_length] = .dump$gl_irab[rab$w_rsz];
: 898      1004 4      bufdesc[dsc$a_pointer] = .dump$gl_irab[rab$l_rbf];
: 899      1005 4      IF NOT .status
: 900      1006 4      THEN
: 901      1007 4      BEGIN
: 902      1008 4      IF .status NEQ rms$_eof
: 903      1009 4      THEN
: 904      1010 4      SIGNAL(
: 905      1011 4      dump$_facility^16 + shr$_readerr + sts$k_error,
: 906      1012 4      1, dump$gl_idesc,
: 907      1013 4      .dump$gl_irab[rab$l_sts], .dump$gl_irab[rab$l_stv]);
: 908      1014 4      status = ss$_endoffile;
: 909      1015 4      END;
: 910      1016 4      END;
: 911      1017 4      END;
: 912      1018 4      RETURN .status
: 913      1019 4      END;
: 914      1020 1      END;
```

.EXTRN SYSSQIOW, SYSSGET

```

57 00000000G 00 00FC 00000
56 00000000G 00 00 9E 00002
55 00000000' EF 00 9E 00009
                    EF 00 9E 00010
```

```

.ENTRY DUMPSREAD, Save R2,R3,R4,R5,R6,R7
MOVAB LIB$SIGNAL, R7
MOVAB SYSSQIOW, R6
MOVAB DUMPSGL_BUFFER+4, R5
```

```

: 0916
:
:
:
```

03	05	5E	04	08	C2	00017	SUBL2	#8, SP	...	0945
		53		AC	D0	0001A	MOVL	BUFDISC, R3	...	0928
		A5		05	E1	0001E	BBC	#5, DUMP\$GL_FLAGS+1, 1\$	...	
				0119	31	00023	BRW	14\$	...	
		50	FD14	C5	D0	00026	MOVL	DUMP\$GL_IFAB, R0	...	0931
03	43	A0		04	E1	0002B	BBC	#4, 67(R0), 2\$	...	
				0081	31	00030	BRW	8\$	...	
		54		01	D0	00033	MOVL	#1, I	...	0934
				7E	7C	00036	CLRQ	-(SP)	...	0943
				7E	7C	00038	CLRQ	-(SP)	...	
		7E	FC	A5	3C	0003A	MOVZWL	DUMP\$GL_BUFFER, -(SP)	...	
				65	DD	0003E	PUSHL	DUMP\$GL_BUFFER+4	...	
				7E	7C	00040	CLRQ	-(SP)	...	
			20	AE	9F	00042	PUSHAB	IOSB	...	
		50	FD14	C5	D0	00045	MOVL	DUMP\$GL_IFAB, R0	...	
		04	43	A0	E9	0004A	BLBC	67(R0), -4\$	...	
				21	DD	0004E	PUSHL	#33	...	
				02	11	00050	BRB	5\$	...	
				31	DD	00052	PUSHL	#49	...	
			F0	A5	DD	00054	PUSHL	DUMP\$GL_CHANNEL	...	
				7E	D4	00057	CLRL	-(SP)	...	
		66		0C	FB	00059	CALLS	#12, SYSSQIOW	...	
		52		50	D0	0005C	MOVL	R0, STATUS	...	
	04	BC	02	AE	B0	0005F	MOVW	IOSB+2, @BUFDISC	...	0944
	04	A3		65	D0	00064	MOVL	DUMP\$GL_BUFFER+4, 4(R3)	...	0945
		03		52	E9	00068	BLBC	STATUS, -6\$	...	0946
		52		6E	3C	0006B	MOVZWL	IOSB, STATUS	...	
		50	FD14	C5	D0	0006E	MOVL	DUMP\$GL_IFAB, R0	...	0948
0B	40	A0		02	E1	00073	BBC	#2, 64(R0), 7\$	...	
		1A	04	AE	B1	00078	CMPW	IOSB+4, #26	...	0949
				05	12	0007C	BNEQ	7\$	...	
		52	0870	8F	3C	0007E	MOVZWL	#2160, STATUS	...	0951
	00000870	8F		52	D1	00083	CMPL	STATUS, #2160	...	0953
				70	12	0008A	BNEQ	13\$	...	
6B	40	A0		05	E1	0008C	BBC	#5, 64(R0), 13\$	...	0954
		67	43	A0	E9	00091	BLBC	67(R0), 13\$	...	0955
	00000000G	00		00	FB	00095	CALLS	#0, DUMP\$BLANK_LINE	...	0958
				01	DD	0009C	PUSHL	#1	...	0959
			00000000G	8F	DD	0009E	PUSHL	#DUMP\$ ENDOFFILE	...	
	00000000G	00		02	FB	000A4	CALLS	#2, DUMP\$OUTPUT_GETMSG	...	
				54	D5	000AB	TSTL	I	...	0960
				4D	13	000AD	BEQL	13\$	...	
		84		54	F4	000AF	SOBGEQ	I, 3\$	...	0934
				48	11	000B2	BRB	13\$	...	0931
	20	A5	1C	A5	D1	000B4	CMPL	DUMP\$GL_CUR_BLOCK, DUMP\$GL_MAX_BLOCK	...	0968
				06	1B	000B9	BLEQU	9\$	...	
		50	0870	8F	3C	000BB	MOVZWL	#2160, R0	...	0970
				04	00	00C0	RET		...	
				7E	7C	000C1	CLRQ	-(SP)	...	0979
				7E	D4	000C3	CLRL	-(SP)	...	
			1C	A5	DD	000C5	PUSHL	DUMP\$GL_CUR_BLOCK	...	
		7E	0200	8F	3C	000C8	MOVZWL	#512, -(SP)	...	
				65	DD	000CD	PUSHL	DUMP\$GL_BUFFER+4	...	
				7E	7C	000CF	CLRQ	-(SP)	...	
			20	AE	9F	000D1	PUSHAB	IOSB	...	
		04	43	A0	E9	000D4	BLBC	67(R0), 10\$	...	
				21	DD	000D8	PUSHL	#33	...	



			02	11	000DA	BRB	11\$	
			31	DD	000DC	10\$: PUSHL	#49	
		F0	A5	DD	000DE	11\$: PUSHL	DUMPSGL_CHANNEL	
			7E	D4	000E1	CLRL	-(SP)	
	66		0C	FB	000E3	CALLS	#12, SYSSQIOW	
	52		50	D0	000E6	MOVL	R0, STATUS	
	03		52	E9	000E9	BLBC	STATUS, 12\$	0980
	52		6E	3C	000EC	MOVZWL	IOSB, STATUS	
04	BC	0200	8F	B0	000EF	12\$: MOVW	#512, @BUFDESC	0981
04	A3		65	D0	000F5	MOVL	DUMPSGL_BUFFER+4, 4(R3)	0982
		1C	A5	D6	000F9	INCL	DUMPSGL_CUR_BLOCK	0983
00000870	7F		52	E8	000FC	13\$: BLBS	STATUS, 16\$	0985
	8F		52	D1	000FF	CMPL	STATUS, #2160	0986
			76	13	00106	BEQL	16\$	
000001F4	8F		52	D1	00108	CMPL	STATUS, #500	0987
			6D	13	0010F	BEQL	16\$	
0000005C	8F		52	D1	00111	CMPL	STATUS, #92	0988
			64	13	00118	BEQL	16\$	
00000878	8F		52	D1	0011A	CMPL	STATUS, #2168	0989
			5B	13	00121	BEQL	16\$	
000000DC	8F		52	D1	00123	CMPL	STATUS, #220	0990
			52	13	0012A	BEQL	16\$	
		FF54	52	DD	0012C	PUSHL	STATUS	0996
			C5	9F	0012E	PUSHAB	DUMPSGL_IDESC	0993
			01	DD	00132	PUSHL	#1	
		00000000*	8F	DD	00134	PUSHL	#<<<DUMPS_FACILITY@16>+4272>+2>	0994
	67		04	FB	0013A	CALLS	#4, LIB\$SIGNAL	
			3A	11	0013D	BRB	15\$	0997
		FD1C	C5	9F	0013F	14\$: PUSHAB	DUMPSGL_IRAB	1002
00000000G	00		01	FB	00143	CALLS	#1, SYSSGET	
	52		50	D0	0014A	MOVL	R0, STATUS	
	04	BC	C5	B0	0014D	MOVW	DUMPSGL_IRAB+34, @BUFDESC	1003
	04	A3	C5	D0	00153	MOVL	DUMPSGL_IRAB+40, 4(R3)	1004
	22	FD44	52	E8	00159	BLBS	STATUS, 16\$	1005
0001827A	8F		52	D1	0015C	CMPL	STATUS, #98938	1008
			14	13	00163	BEQL	15\$	
	7E	FD24	C5	7D	00165	MOVQ	DUMPSGL_IRAB+8, -(SP)	1013
		FF54	C5	9F	0016A	PUSHAB	DUMPSGL_IDESC	1010
			01	DD	0016E	PUSHL	#1	
		00000000*	8F	DD	00170	PUSHL	#<<<DUMPS_FACILITY@16>+4272>+2>	1011
	67		05	FB	00176	CALLS	#5, LIB\$SIGNAL	
	52	0870	8F	3C	00179	15\$: MOVZWL	#2160, STATUS	1014
	50		52	D0	0017E	16\$: MOVL	STATUS, R0	1019
			04	00181		RET		1020

; Routine Size: 386 bytes, Routine Base: \$CODE\$ + 076D

```

: 916      1021 1 GLOBAL ROUTINE dump$write(recdesc): NOVALUE=
: 917      1022 2 BEGIN
: 918      1023 2
: 919      1024 2 Write a record to the output file
: 920      1025 2
: 921      1026 2 Inputs:
: 922      1027 2
: 923      1028 2 recdesc pointer to string descriptor for record
: 924      1029 2
: 925      1030 2 MAP
: 926      1031 2 recdesc : REF BBLOCK;
: 927      1032 2
: 928      1033 2
: 929      1034 2 dump$gl_orab[rab$w_rsz] = .recdesc[dsc$w_length];
: 930      1035 2 dump$gl_orab[rab$l_rbf] = .recdesc[dsc$a_pointer];
: 931      1036 2 IF NOT $PUT(rab=dump$gl_orab)
: 932      1037 2 THEN
: 933      1038 2 SIGNAL(
: 934      1039 2 dump$_facility^16 + shr$_writeerr + sts$k_severe,
: 935      1040 2 1, dump$gl_odesc,
: 936      1041 2 .dump$gl_orab[rab$l_sts], .dump$gl_orab[rab$l_stv]);
: 937      1042 1 END;
```

				.EXTRN	SYSSPUT	
			0004 00000	.ENTRY	DUMPSWRITE, Save R2	: 1021
	52	00000000'	EF 9E 00002	MOVAB	DUMPSGL_ORAB+34, R2	
	50	04	AC D0 00009	MOVL	RECDESC, R0	: 1034
	62		60 B0 0000D	MOVW	(R0), DUMPSGL_ORAB+34	
06	A2	04	A0 D0 00010	MOVL	4(R0), DUMPSGL_ORAB+40	: 1035
		DE	A2 9F 00015	PUSHAB	DUMPSGL_ORAB	: 1036
00000000G	00		01 FB 00018	CALLS	#1, SYSSPUT	
	17		50 E8 0001F	BLBS	R0, 1\$	
	7E	E6	A2 7D 00022	MOVQ	DUMPSGL_ORAB+8, -(SP)	: 1041
		01DA	C2 9F 00026	PUSHAB	DUMPSGL_ODESC	: 1038
			01 DD 0002A	PUSHL	#1	
		00000000*	8F DD 0002C	PUSHL	#<<<DUMPS_FACILITY@16>+4304>+4>	: 1039
00000000G	00		05 FB 00032	CALLS	#5, LIB\$SIGNAL	
			04 00039 1\$:	RET		: 1042

; Routine Size: 58 bytes, Routine Base: \$CODE\$ + 08EF



```

: 939      1043 1 ROUTINE dump$close_input(fab): NOVALUE=
: 940      1044 2 BEGIN
: 941      1045 2
: 942      1046 2   Close the input file
: 943      1047 2
: 944      1048 2   Inputs:
: 945      1049 2
: 946      1050 2       fab      Address of fab
: 947      1051 2
: 948      1052 2 MAP
: 949      1053 2   fab : REF BBLOCK;
: 950      1054 2 LOCAL
: 951      1055 2   status;
: 952      1056 2
: 953      1057 2
: 954      1058 2 IF .dump$gl_flags[dump$v_records]          ! If RMS dump
: 955      1059 2 THEN
: 956      1060 2   BEGIN
: 957      1061 2     IF NOT $CLOSE(fab=.fab)              ! Close fab
: 958      1062 2     THEN
: 959      1063 2       SIGNAL(
: 960      1064 2         dump$_facility^16 + shr$_closein + sts$_k_error,
: 961      1065 2         1, dump$gl_idesc,
: 962      1066 2         .fab[fab$_l_sts], .fab[fab$_l_stv]);
: 963      1067 2     END
: 964      1068 2 ELSE
: 965      1069 2   BEGIN
: 966      1070 2     status = $DASSGN(CHAN=.dump$gl_channel);    ! Else deassign channel
: 967      1071 2     IF NOT .status
: 968      1072 2     THEN
: 969      1073 2       SIGNAL(
: 970      1074 2         dump$_facility^16 + shr$_closein + sts$_k_error,
: 971      1075 2         1, dump$gl_idesc,
: 972      1076 2         .status);
: 973      1077 2     END;
: 974      1078 2
: 975      1079 2
: 976      1080 2 ! Free input buffer.
: 977      1081 2
: 978      1082 2 IF .dump$gl_buffer[dsc$a_pointer] NEQ 0
: 979      1083 2 THEN
: 980      1084 2   lib$free_vm(dump$gl_buffer[dsc$_w_length], dump$gl_buffer[dsc$a_pointer]);
: 981      1085 1 END;
```

.EXTRN SYSS\$CLOSE, SYSS\$DASSGN

001C 00000 DUMPS\$CLOSE INPUT:

		54	00000000G	00	9E	00002	.WORD	Save R2,R3,R4		1043
		53	00000000'	EF	9E	00009	MOVAB	LIB\$SIGNAL, R4		
23	00B1	C3		05	E1	00010	MOVAB	DUMPS\$GL_IDESC, R3		
		52	04	AC	D0	00016	BBC	#5, DUMPS\$GL_FLAGS+1, 1\$		1058
				52	DD	0001A	MOVL	FAB, R2		1061
	00000000G	00		01	FB	0001C	PUSHL	R2		
		30		50	E8	00023	CALLS	#1, SYSS\$CLOSE		
							BLBS	R0, 2\$		

DUMPSMAIN  
V04-000

C 13

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DISK\$VMSMASTER:[DUMP.SRC]DUMP.B32;1

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7E	08	A2	7D	00026	MOVQ	8(R2), -(SP)	:	1066
		53	DD	0002A	PUSHL	R3	:	1063
		01	DD	0002C	PUSHL	#1	:	
	00000000*	8F	DD	0002E	PUSHL	#<<<DUMPS_FACILITY@16>+4176>+2>	:	1064
64		05	FB	00034	CALLS	#5, LIB\$SIGNAL	:	
		1D	11	00037	BRB	2\$	:	1058
	009C	C3	DD	00039	PUSHL	DUMPSGL_CHANNEL	:	1070
00000000G	00	01	FB	0003D	CALLS	#1, SYS\$DASSGN	:	
	0F	50	E8	00044	BLBS	STATUS, 2\$	:	1071
		50	DD	00047	PUSHL	STATUS	:	1076
		53	DD	00049	PUSHL	R3	:	1073
		01	DD	0004B	PUSHL	#1	:	
	00000000*	8F	DD	0004D	PUSHL	#<<<DUMPS_FACILITY@16>+4176>+2>	:	1074
64		04	FB	00053	CALLS	#4, LIB\$SIGNAL	:	
	00AC	C3	D5	00056	TSTL	DUMPSGL_BUFFER+4	:	1082
		0F	13	0005A	BEQL	3\$	:	
	00AC	C3	9F	0005C	PUSHAB	DUMPSGL_BUFFER+4	:	1084
	00A8	C3	9F	00060	PUSHAB	DUMPSGL_BUFFER	:	
00000000G	00	02	FB	00064	CALLS	#2, LIB\$FREE_VM	:	1085
		04	0006B	3\$:	RET		:	

; Routine Size: 108 bytes, Routine Base: \$CODE\$ + 0929



```

: 983      1086 1 ROUTINE dump$close_output: NOVALUE=
: 984      1087 2 BEGIN
: 985      1088 2
: 986      1089 2 | Close the output file
: 987      1090 2
: 988      1091 2 | Inputs:
: 989      1092 2
: 990      1093 2
: 991      1094 2 IF NOT $CLOSE(fab=dump$gl_ofab)
: 992      1095 2 THEN
: 993      1096 2 |     SIGNAL(
: 994      1097 2 |         dump$_facility^16 + shr$_closeout + sts$_error,
: 995      1098 2 |         1, dump$gl_odesc,
: 996      1099 2 |         .dump$gl_ofab[fab$_l_sts], .dump$gl_ofab[fab$_l_stv]);
: 997      1100 1 END;
```

```

                                0004 00000 DUMP$CLOSE OUTPUT:
                                .WORD    Save R2
                                52 00000000' EF 9E 00002    MOVAB    DUMP$GL_OFAB, R2      ; 1086
                                52 DD 00009    PUSHL    R2      ; 1094
00000000G 00 01 FB 0000B    CALLS    #1, SYS$CLOSE
                                17 50 E8 00012    BLBS     R0, 1$
                                7E 08 A2 7D 00015    MOVQ     DUMP$GL_OFAB+8, -(SP)      ; 1099
                                01B8 C2 9F 00019    PUSHAB   DUMP$GL_ODESC      ; 1096
                                01 DD 0001D    PUSHL     #1
00000000G 00 00000000* 8F DD 0001F    PUSHL     #<<<DUMP$_FACILITY@16>+4184>+2>      ; 1097
                                05 FB 00025    CALLS     #5, LIB$SIGNAL
                                04 0002C 1$:    RET      ; 1100
```

; Routine Size: 45 bytes, Routine Base: \$CODE\$ + 0995

```

: 999      1101 1 ROUTINE dump$list_width(fab): NOVALUE=
: 1000     1102 1 BEGIN
: 1001     1103 1
: 1002     1104 2 ! Determine the width of the listing line
: 1003     1105 2 ! FAB is the fab of the open file, width returned in dump$gl_width,
: 1004     1106 2 ! and dump$gl_outdesc set up as string descriptor for output buffer
: 1005     1107 2
: 1006     1108 2 MAP
: 1007     1109 2     fab : REF BBLOCK;
: 1008     1110 2 BIND
: 1009     1111 2     nam = .fab[fab$l_nam] : BBLOCK;
: 1010     1112 2 LOCAL
: 1011     1113 2     devnamdesc : BBLOCK[dsc$c_s_bln],
: 1012     1114 2     devnambuf : VECTOR[nam$c_maxrss, BYTE],
: 1013     1115 2     devnambufdesc : BBLOCK[dsc$c_s_bln],
: 1014     1116 2     devinfobuf : BBLOCK[dib$k_length],
: 1015     1117 2     devinfodesc : BBLOCK[dsc$c_s_bln];
: 1016     1118 2 LITERAL
: 1017     1119 2     ch_escape = %0'033';                ! ASCII <ESC>
: 1018     1120 2
: 1019     1121 2
: 1020     1122 2 dump$gl_width = dump$c_deflisiz;        ! Assume default
: 1021     1123 2
: 1022     1124 2 devnamdesc[dsc$a_pointer] = .nam[nam$l_dev];
: 1023     1125 2 devnamdesc[dsc$w_length] =
: 1024     1126 2     CH$FIND_CH(.nam[nam$b_dev], .nam[nam$l_dev], %C':')
: 1025     1127 2     - .nam[nam$l_dev];
: 1026     1128 2 devnambufdesc[dsc$w_length] = nam$c_maxrss;
: 1027     1129 2 devnambufdesc[dsc$a_pointer] = devnambuf;
: 1028     1130 2 $STRNLOG(LOGNAM=devnamdesc, RSLLEN=devnambufdesc, RSLBUF=devnambufdesc);
: 1029     1131 2 IF .devnambuf[0] EQL ch_escape          ! If process permanent file
: 1030     1132 2 THEN
: 1031     1133 2     BEGIN
: 1032     1134 2     devnambufdesc[dsc$w_length] = .devnambufdesc[dsc$w_length] - 4;
: 1033     1135 2     devnambufdesc[dsc$a_pointer] = .devnambufdesc[dsc$a_pointer] + 4;
: 1034     1136 2     END;
: 1035     1137 2
: 1036     1138 2
: 1037     1139 2 ! Do a $GETDEV to get the width.
: 1038     1140 2
: 1039     1141 2 devinfodesc[dsc$w_length] = dib$k_length;    ! Set up descriptor for $GETDEV
: 1040     1142 2 devinfodesc[dsc$a_pointer] = devinfobuf;
: 1041     1143 2 IF $GETDEV(DEVNAM=devnambufdesc, SCDBUF=devinfodesc)
: 1042     1144 2 THEN
: 1043     1145 2     dump$gl_width = MINU(.devinfobuf[dib$w_devbufsiz], dump$c_maxlisiz);
: 1044     1146 2
: 1045     1147 2
: 1046     1148 2 ! Set up output buffer descriptor.
: 1047     1149 2
: 1048     1150 2 dump$gl_outdesc[dsc$w_length] = .dump$gl_width;
: 1049     1151 2 dump$gl_outdesc[dsc$a_pointer] = dump$ab_outbuf;
: 1050     1152 1 END;                                     ! Of dump$list_width
```

.EXTRN SYS\$STRNLOG, SYS\$GETDEV



```
000C 00000 DUMPSLIST WIDTH:
      53 00000000' EF 9E 00002 .WORD Save R2,R3      : 1101
      5E FE74 CE 9E 00009 MOVAB DUMPSGL_WIDTH, R3
      50 04 AC D0 0000E MOVAB -396(SP), SP
      52 28 A0 D0 00012 MOVL FAB, R0      : 1111
      63 50 8F 9A 00016 MOVZBL #80, DUMPSGL_WIDTH
      FC AD 44 A2 D0 0001A MOVL 68(R2), DEVNAMDESC+4 : 1122
      50 39 A2 9A 0001F MOVZBL 57(R2), R0      : 1124
      50 3A 3A 00023 LOCC #58, R0, @68(R2) : 1126
      02 12 00028 BNEQ 1$
      51 D4 0002A CLRL R1
      F8 AD A2 A3 0002C 1$: SUBW3 68(R2), R1, DEVNAMDESC : 1127
      7C AE FF 8F 9B 00032 MOVZBW #255, DEVNAMBUFDESC : 1128
      0080 CE 0084 CE 9E 00037 MOVAB DEVNAMBUF, DEVNAMBUFDESC+4 : 1129
      7E 7C 0003E CLRQ -(SP) : 1130
      7E D4 00040 CLRL -(SP)
      0088 CE 9F 00042 PUSHAB DEVNAMBUFDESC
      008C CE 9F 00046 PUSHAB DEVNAMBUFDESC
      F8 AD 9F 0004A PUSHAB DEVNAMDESC
      00000000G 00 06 FB 0004D CALLS #6, SYS$STRNLOG
      1B 0084 CE 91 00054 CMPB DEVNAMBUF, #27 : 1131
      09 12 00059 BNEQ 2$
      7C AE 04 A2 0005B SUBW2 #4, DEVNAMBUFDESC : 1134
      0080 CE 04 C0 0005F ADDL2 #4, DEVNAMBUFDESC+4 : 1135
      04 6E 74 8F 9B 00064 2$: MOVZBW #116, DEVINFODESC : 1141
      AE 9E 00068 MOVAB DEVINFOBUF, DEVINFODESC+4 : 1142
      5E DD 0006D PUSHL SP : 1143
      7E 7C 0006F CLRQ -(SP)
      7E D4 00071 CLRL -(SP)
      008C CE 9F 00073 PUSHAB DEVNAMBUFDESC
      05 FB 00077 CALLS #5, SYS$GETDEV
      50 E9 0007E BLBC R0, 4$
      0E AE 3C 00081 MOVZWL DEVINFOBUF+6, R0 : 1145
      0084 8F 50 B1 00085 CMPW R0, #132
      04 1B 0008A BLEQU 3$
      84 8F 9A 0008C MOVZBL #132, R0
      50 D0 00090 3$: MOVL R0, DUMPSGL_WIDTH
      F4 A3 63 B0 00093 4$: MOVW DUMPSGL_WIDTH, DUMPSGL_OUTDESC : 1150
      F8 A3 FF70 C3 9E 00097 MOVAB DUMPSAB_OUTBUF, DUMPSGL_OUTDESC+4 : 1151
      04 0009D RET : 1152
```

; Routine Size: 158 bytes, Routine Base: \$CODE\$ + 09C2

```
1052 1153 1 ROUTINE dump$file_error(message,fab,sts,stv): NOVALUE=
1053 1154 2 BEGIN
1054 1155 3 ++
1055 1156 4 FUNCTIONAL DESCRIPTION:
1056 1157 5
1057 1158 6 This routine signals an error for a file.
1058 1159 7
1059 1160 8 Inputs:
1060 1161 9
1061 1162 10 message      Message
1062 1163 11 fab          Address of the fab
1063 1164 12 sts, stv     STS and STV values
1064 1165 13
1065 1166 14 --
1066 1167 15
1067 1168 16 MAP
1068 1169 17 fab : REF BBLOCK;
1069 1170 18 BIND
1070 1171 19 nam = .fab[fab$_l_nam] : BBLOCK;
1071 1172 20 LOCAL
1072 1173 21 filedesc : BBLOCK[dsc$_s_bln];
1073 1174 22
1074 1175 23 CH$FILL(0, dsc$_s_bln, filedesc);
1075 1176 24
1076 1177 25 IF .nam[nam$_b_rsl] NEQ 0 ! If resultant name present
1077 1178 26 THEN
1078 1179 27 BEGIN
1079 1180 28 filedesc[dsc$_w_length] = .nam[nam$_b_rsl];
1080 1181 29 filedesc[dsc$_a_pointer] = .nam[nam$_[rsa];
1081 1182 30 END
1082 1183 31 ELSE IF .nam[nam$_b_esl] NEQ 0 ! If expanded name present
1083 1184 32 THEN
1084 1185 33 BEGIN
1085 1186 34 filedesc[dsc$_w_length] = .nam[nam$_b_esl];
1086 1187 35 filedesc[dsc$_a_pointer] = .nam[nam$_[esa];
1087 1188 36 END
1088 1189 37 ELSE
1089 1190 38 BEGIN
1090 1191 39 filedesc[dsc$_w_length] = .fab[fab$_b_fns]; ! Use filename string
1091 1192 40 filedesc[dsc$_a_pointer] = .fab[fab$_[fna]; ! if all else fails
1092 1193 41 END;
1093 1194 42
1094 1195 43
1095 1196 44
1096 1197 45 SIGNAL(.message, 1, filedesc, .sts, .stv);
1097 1198 46 END; ! Of dump$file_error
```

## 00FC 0000 DUMPSFILE ERROR:

				WORD	Save R2,R3,R4,R5,R6,R7	: 1153
				SUBL2	#8, SP	: 1171
				MOVL	FAB, R7	: 1176
				MOVL	40(R7), R6	
08	00	5E	08	C2	00002	
		57	08	AC	D0 00005	
		56	28	A7	D0 00009	
		6E	00	2C	0000D	
				MOVC5	#0, (SP), #0, #8, FILEDESC	



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		03	6E A6 0B	95 00013 13 00016	00012	TSTB	3(R6)	:	1178
						BEQL	1\$	:	
	6E	03	A6	9B 00018		MOVZBW	3(R6), FILEDESC	:	1181
04	AE	04	A6	D0 0001C		MOVL	4(R6), FILEDESC+4	:	1182
			19	11 00021		BRB	3\$	:	1178
		0B	A6	95 00023	1\$:	TSTB	11(R6)	:	1184
			0B	13 00026		BEQL	2\$	:	
	6E	0B	A6	9B 00028		MOVZBW	11(R6), FILEDESC	:	1187
04	AE	0C	A6	D0 0002C		MOVL	12(R6), FILEDESC+4	:	1188
			09	11 00031		BRB	3\$	:	
	6E	34	A7	9B 00033	2\$:	MOVZBW	52(R7), FILEDESC	:	1192
04	AE	2C	A7	D0 00037		MOVL	44(R7), FILEDESC+4	:	1193
	7E	0C	AC	7D 0003C	3\$:	MOVQ	STS, -(SP)	:	1197
		0B	AE	9F 00040		PUSHAB	FILEDESC	:	
			01	DD 00043		PUSHL	#1	:	
		04	AC	DD 00045		PUSHL	MESSAGE	:	
00000000G	00		05	FB 00048		CALLS	#5, LIB\$SIGNAL	:	
			04	0004F		RET		:	1198

; Routine Size: 80 bytes, Routine Base: \$CODE\$ + 0A60

: 1099 1199 1 END  
: 1100 1200 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

## PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	804	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	40	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
-LIB\$KEYOS	8	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
-LIB\$STATES	86	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
-LIB\$KEY1\$	17	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
\$CODE\$	2736	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	358	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

## Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	178	1	581	00:00.8
- \$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	28	66	14	00:00.1

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:DUMP/OBJ=OBJ\$:DUMP MSRC\$:DUMP/UPDATE=(ENH\$:DUMP)

: Size: 2736 code + 1313 data bytes  
: Run Time: 00:36.6  
: Elapsed Time: 02:26.3  
: Lines/CPU Min: 1965  
: Lexemes/CPU-Min: 55923  
: Memory Used: 319 pages  
: Compilation Complete



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